

THE

CYCLOPÆDIA;

OR,

Universal Dictionary

OF

ARTS, SCIENCES, AND LITERATURE.

PLATES. VOL. IV.

NAVIGATION — WRITING BY CIPHER.

CYCLOPEDIA

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ARTS, SCIENCES, AND LITERATURE.

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CYCLOPÆDIA;

OR,

UNIVERSAL DICTIONARY

OF

Arts, Sciences, and Literature.

 \mathbf{BY}

ABRAHAM REES, D.D. F.R.S. F.L.S. S. Amer. Soc.

WITH THE ASSISTANCE OF

EMINENT PROFESSIONAL GENTLEMEN.

ILLUSTRATED WITH NUMEROUS ENGRAVINGS,

BY THE MOST DISTINGUISHED ARTISTS.

PLATES. VOL. IV.

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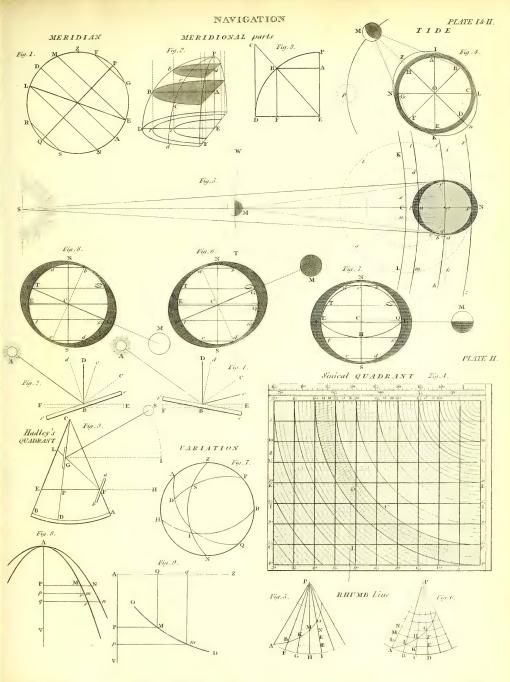
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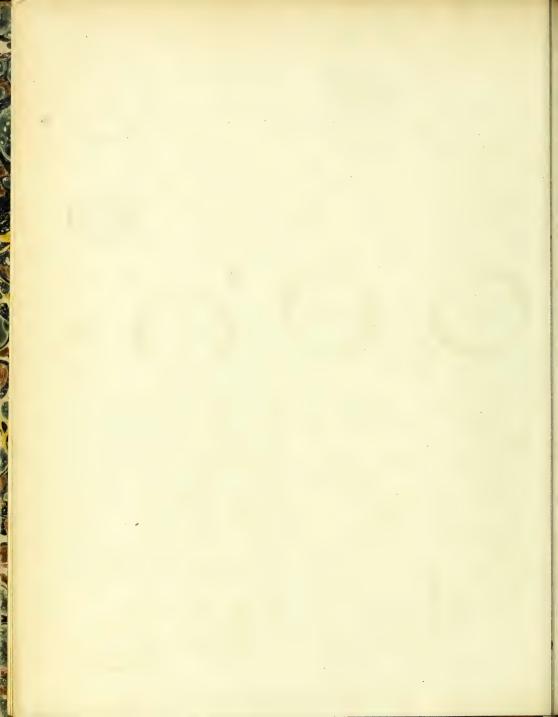
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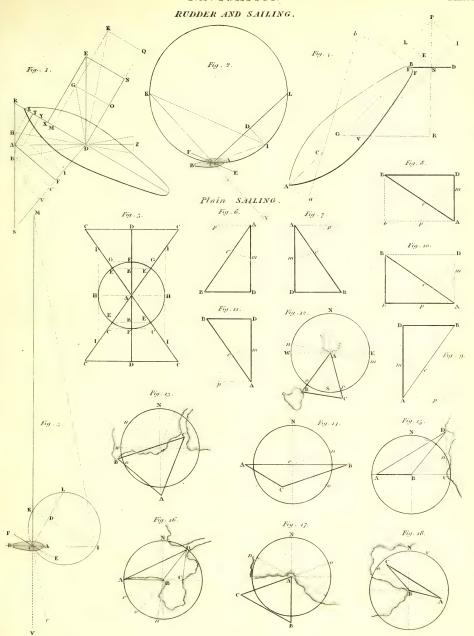
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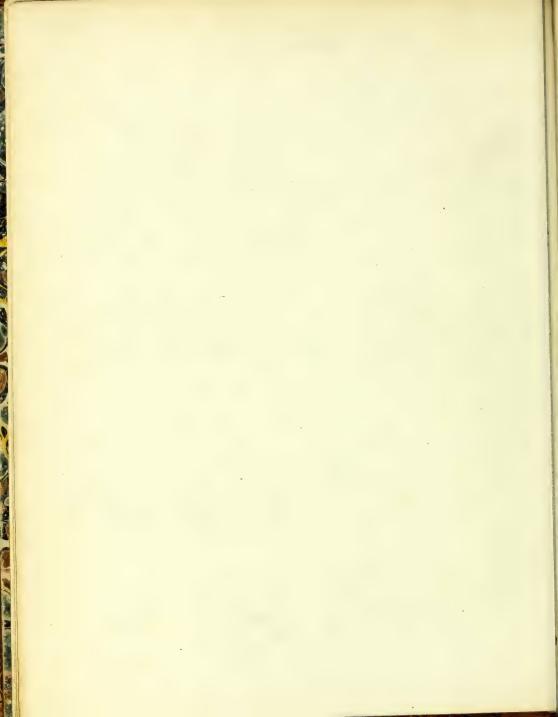
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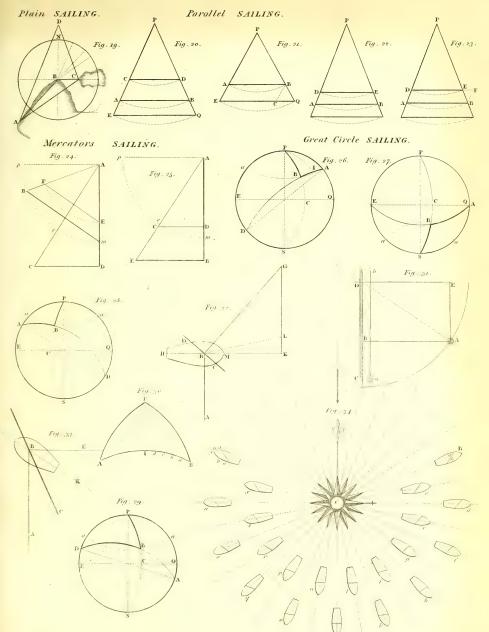


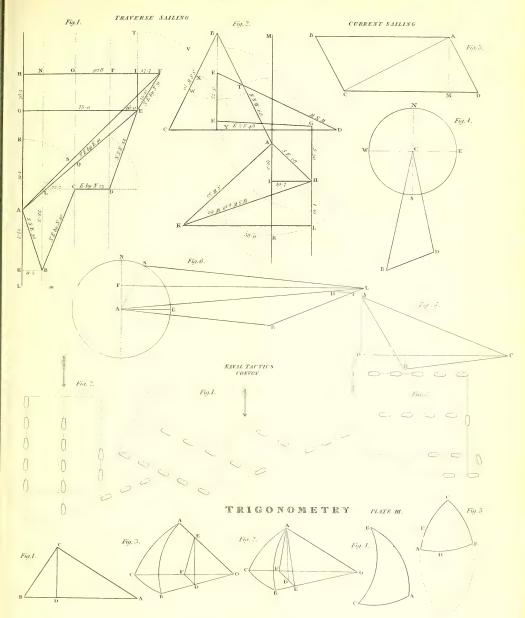


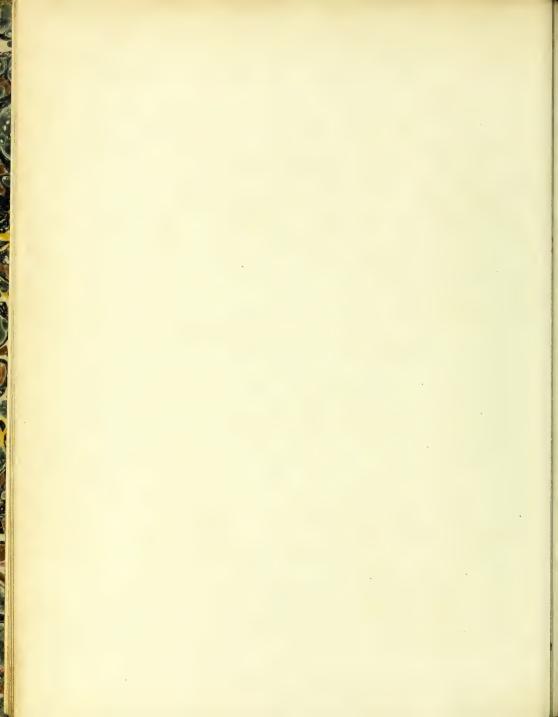
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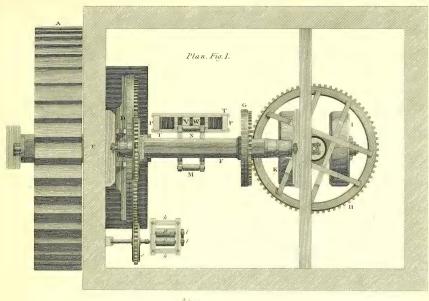


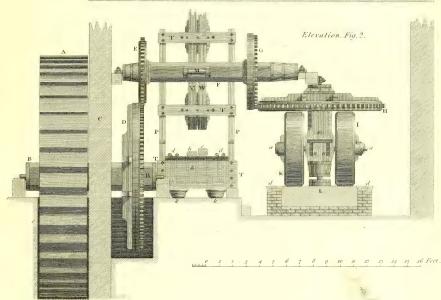


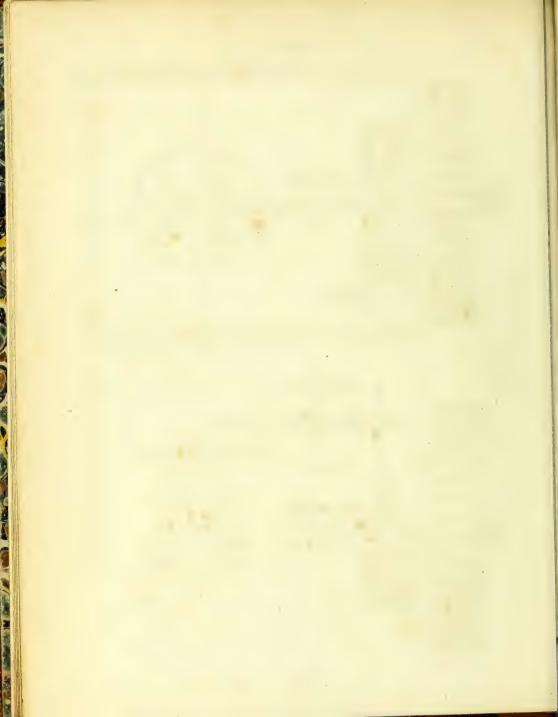


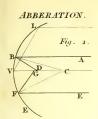


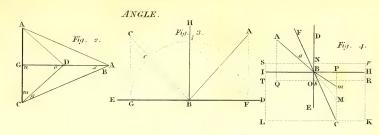
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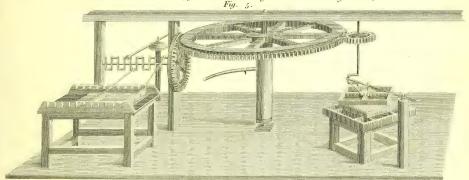








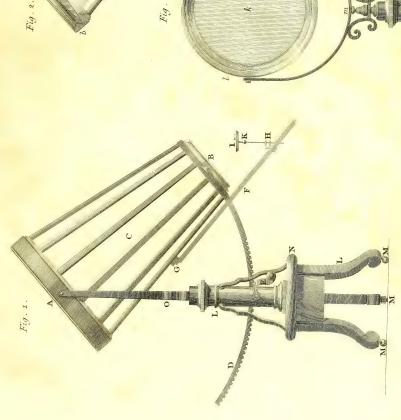
BURROUGHS'S MACHINE, from a MODEL of the SOCIETY of ARTS, &c. Fig. 5.

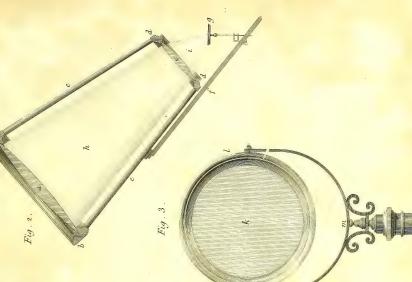


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PARKER'S BURNING LENS.

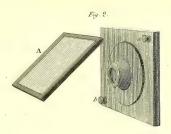


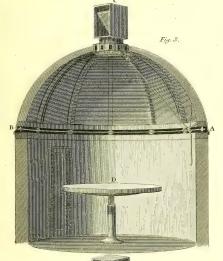


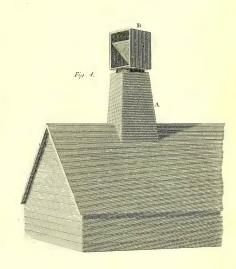


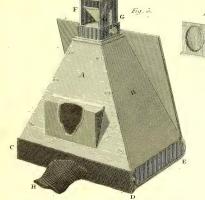
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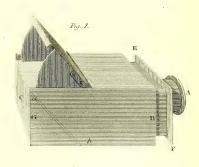
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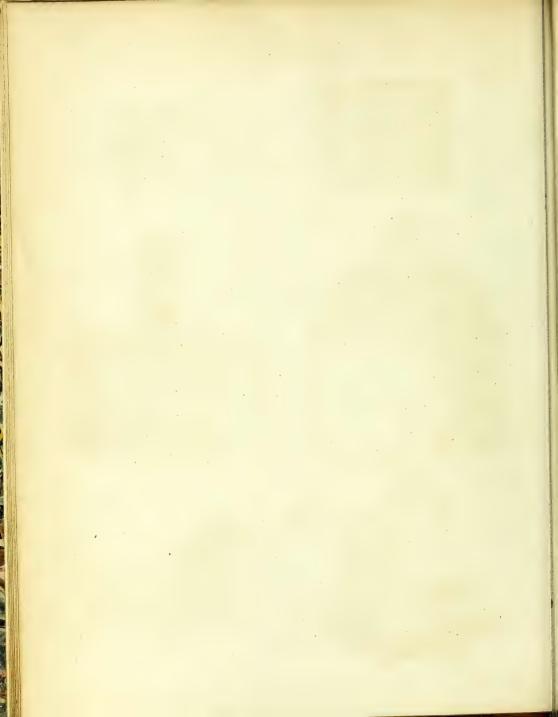


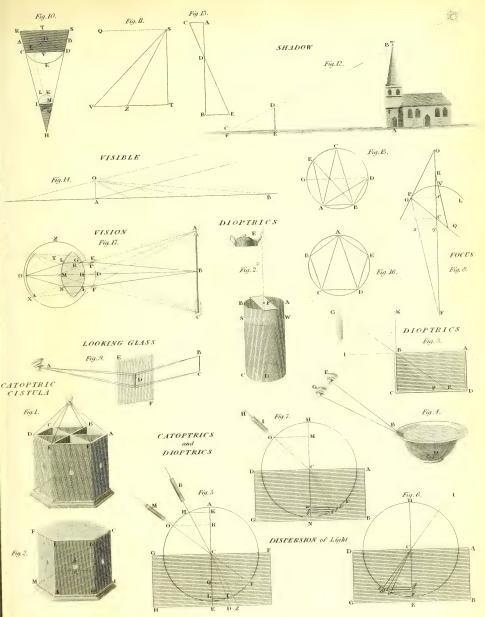


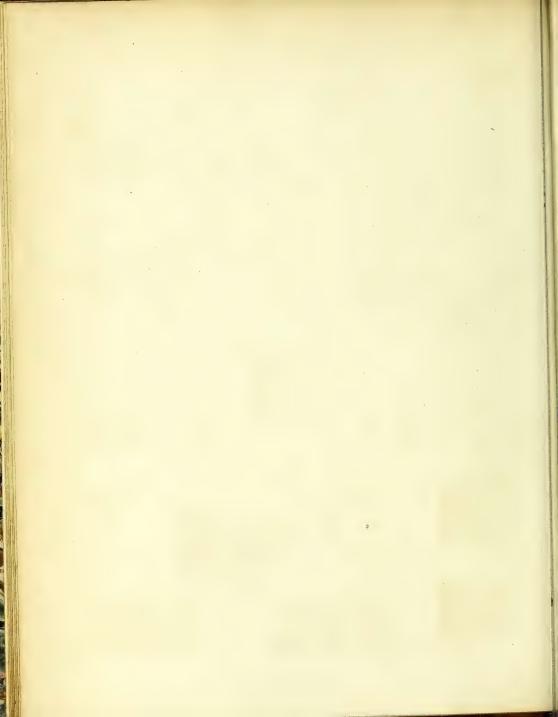




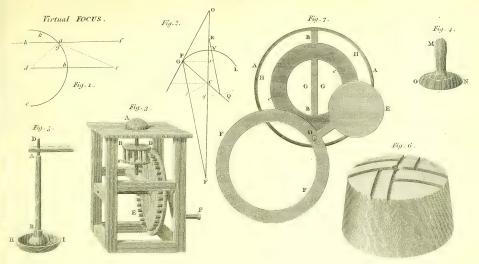




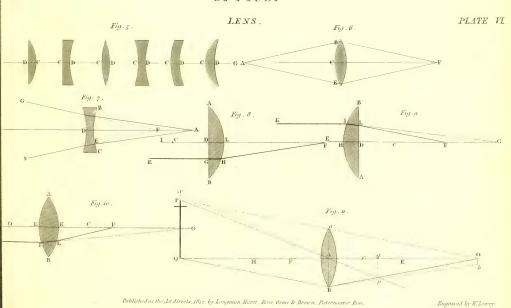


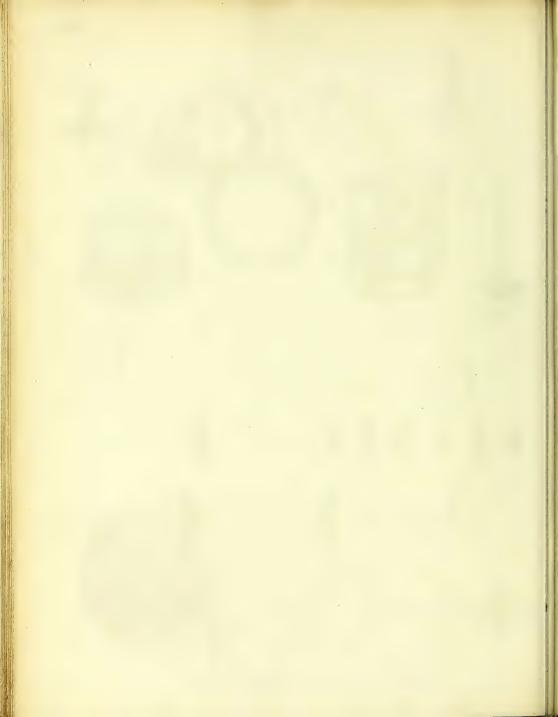


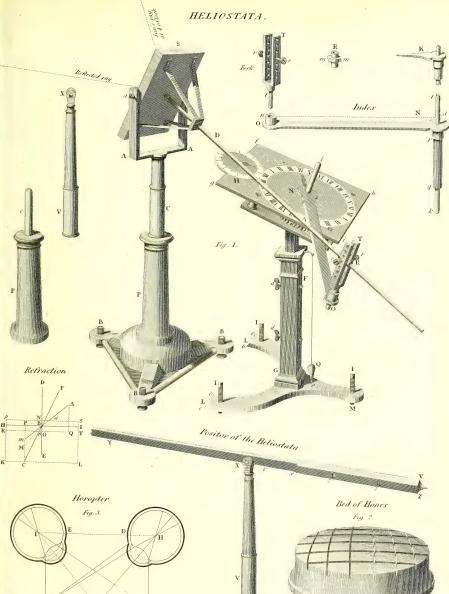
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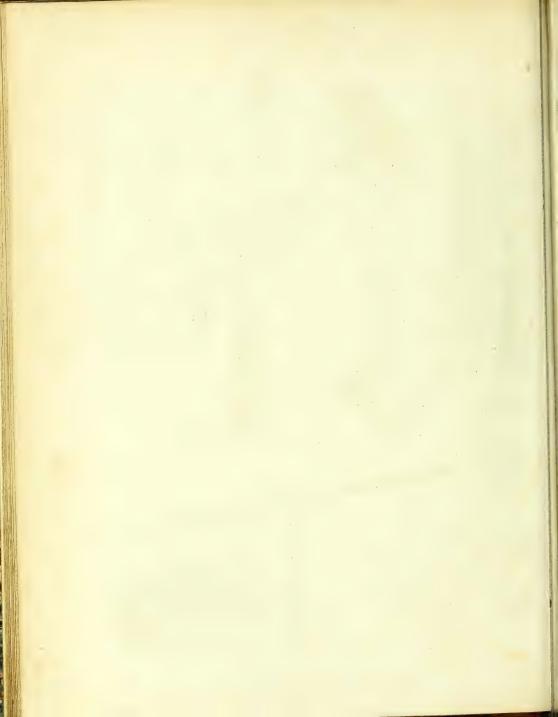


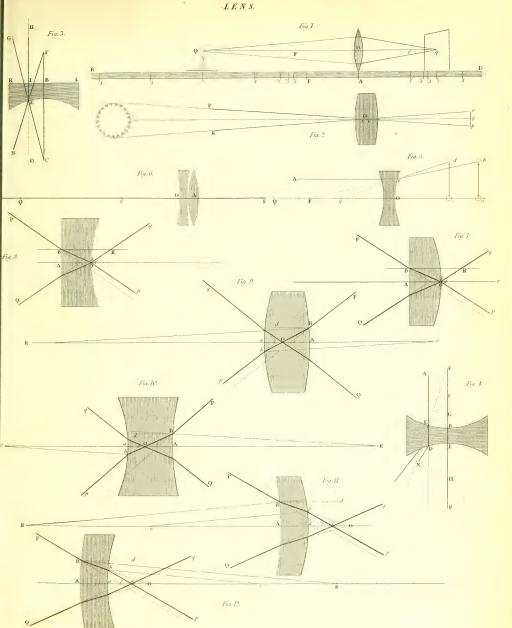
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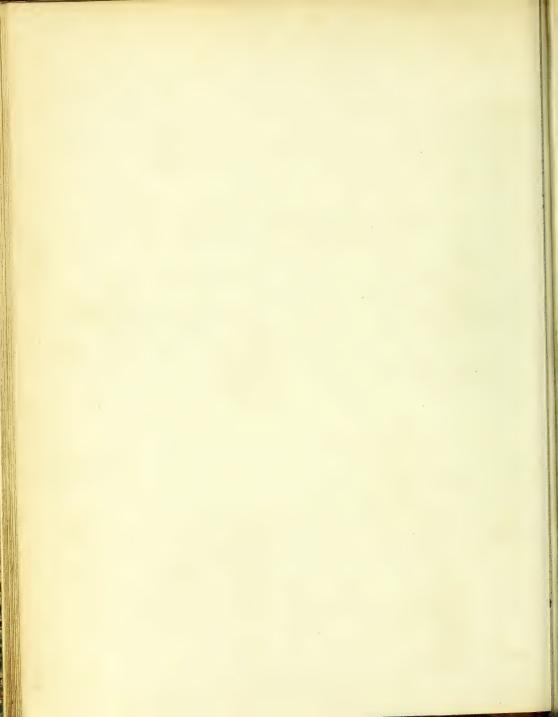


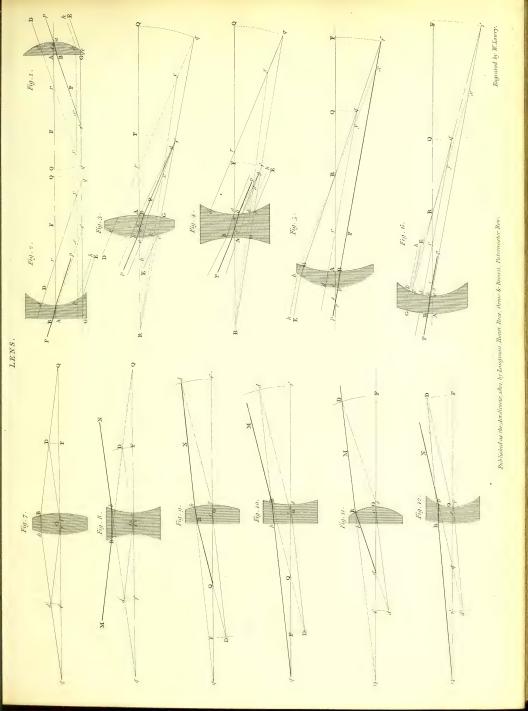


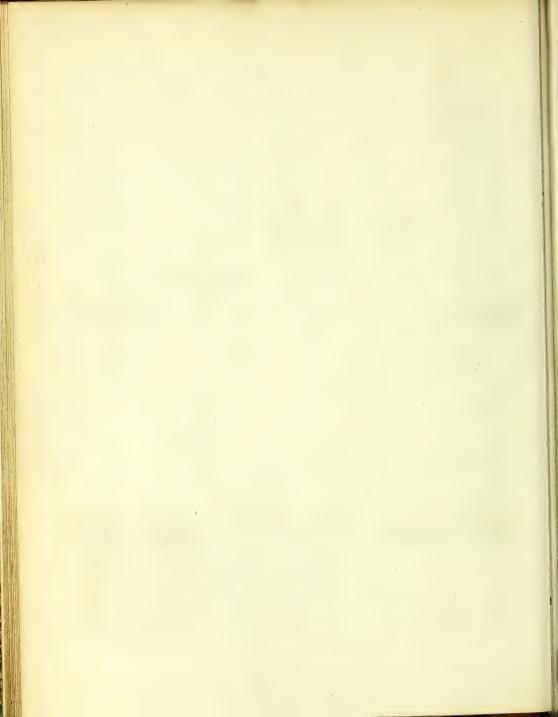


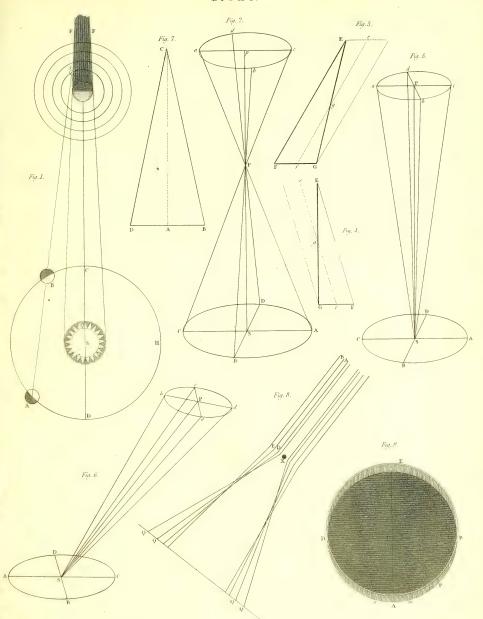


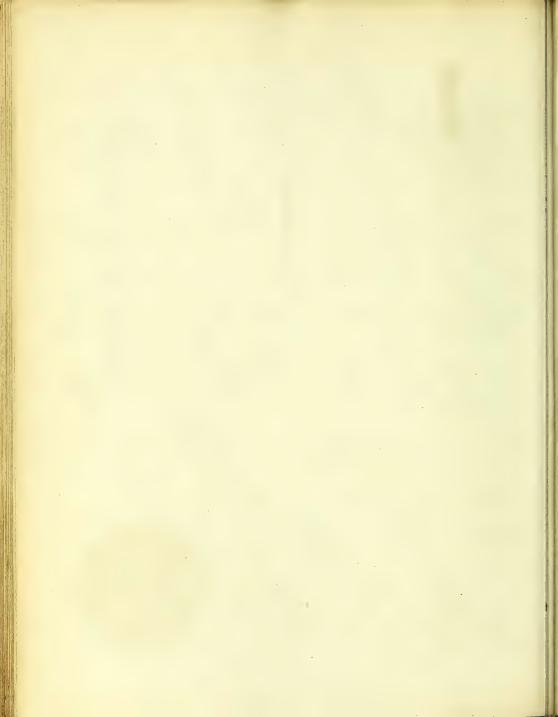


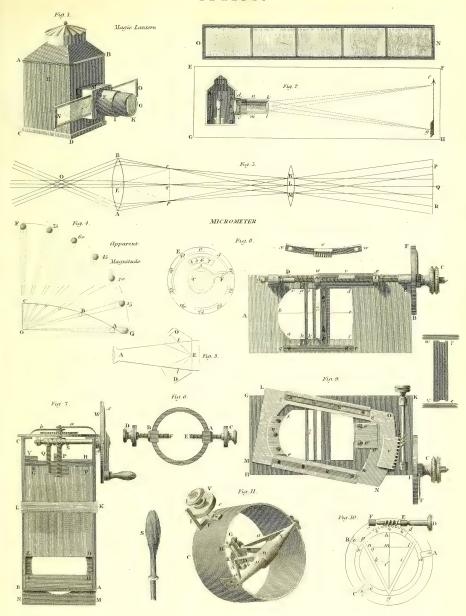


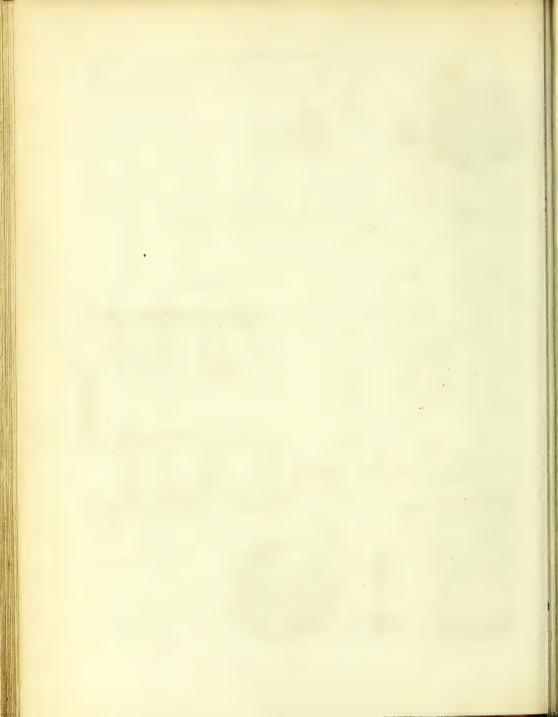




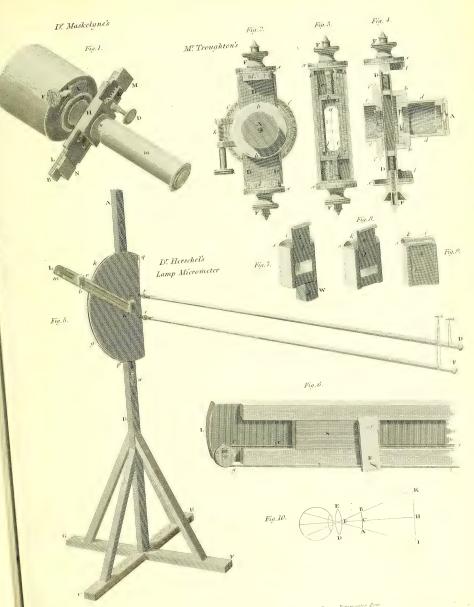


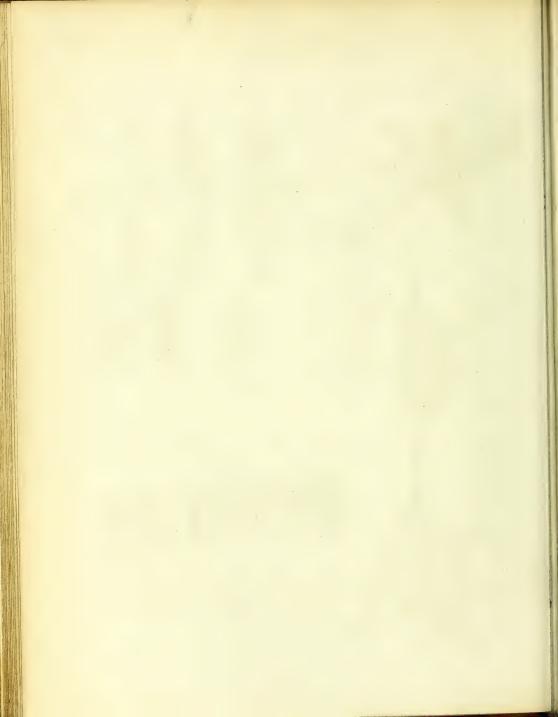


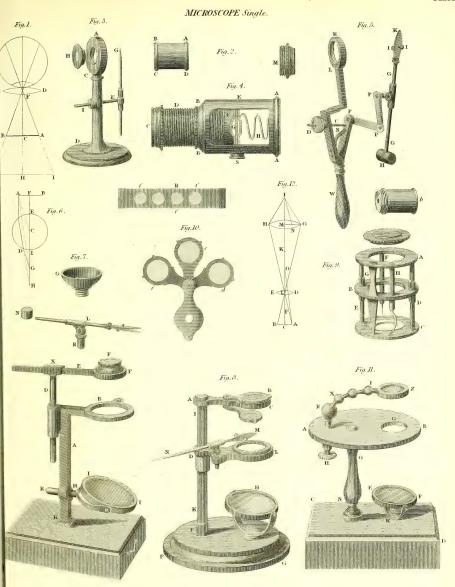


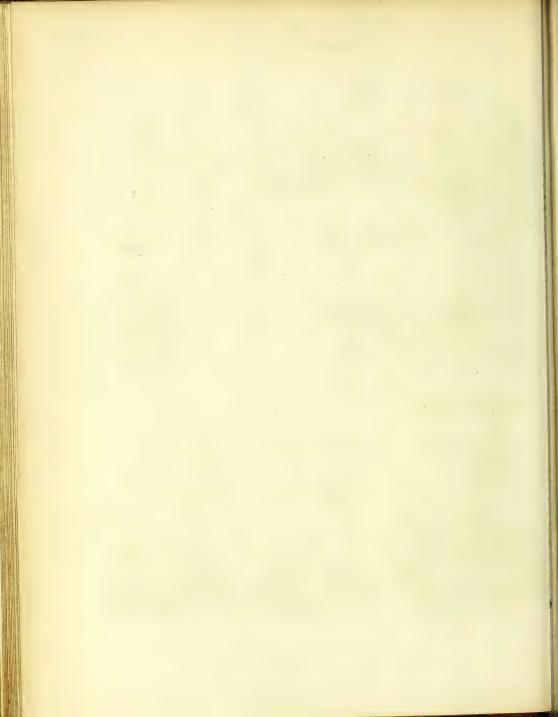


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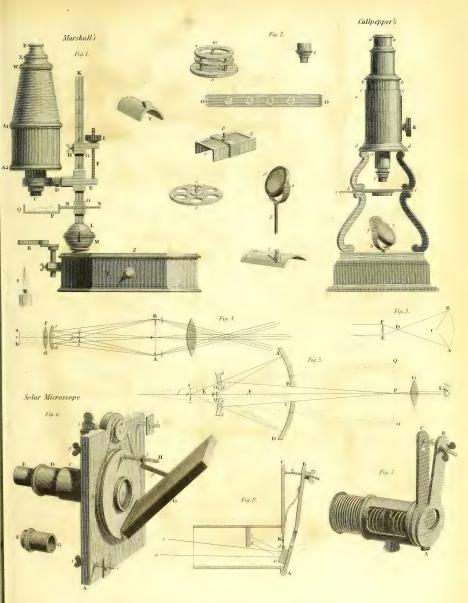






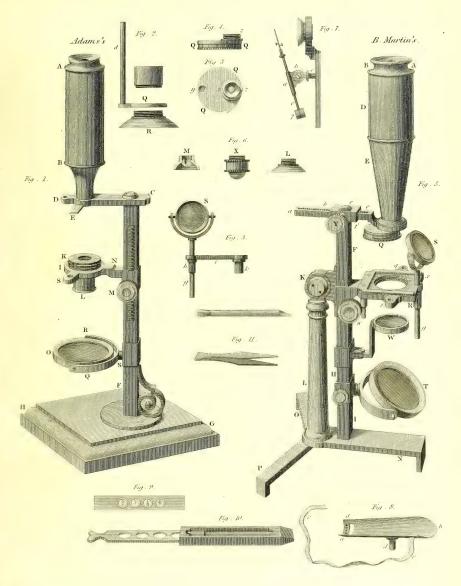


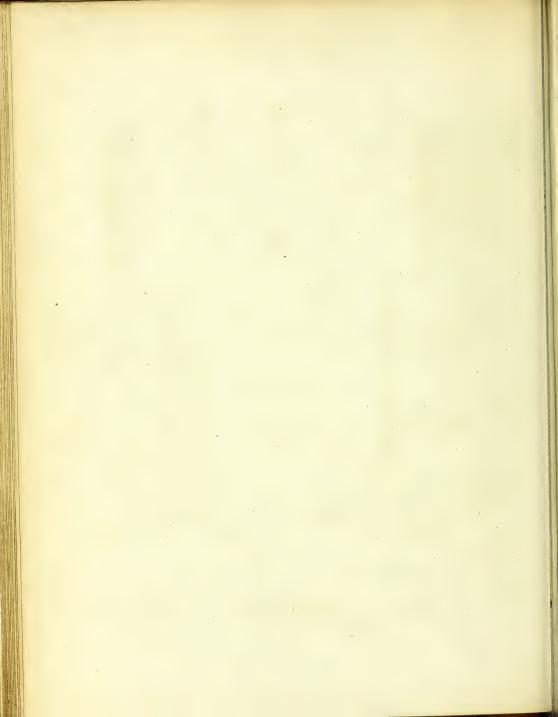
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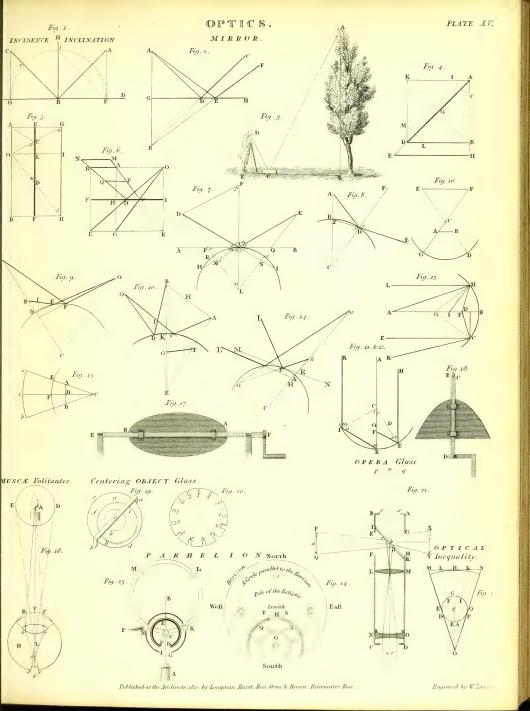


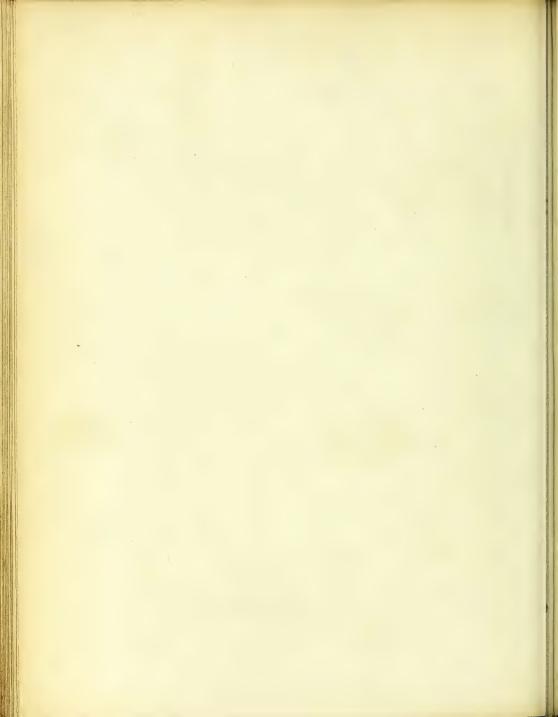


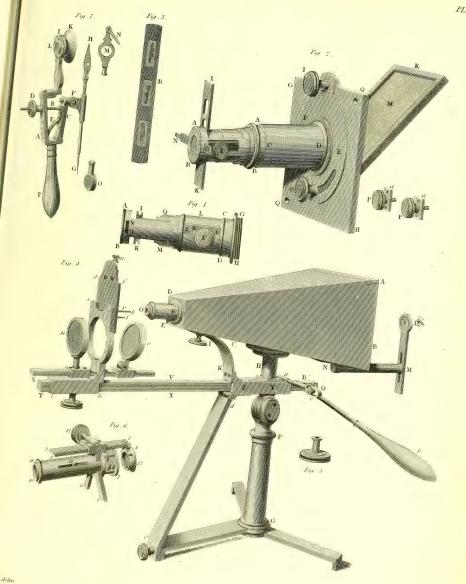
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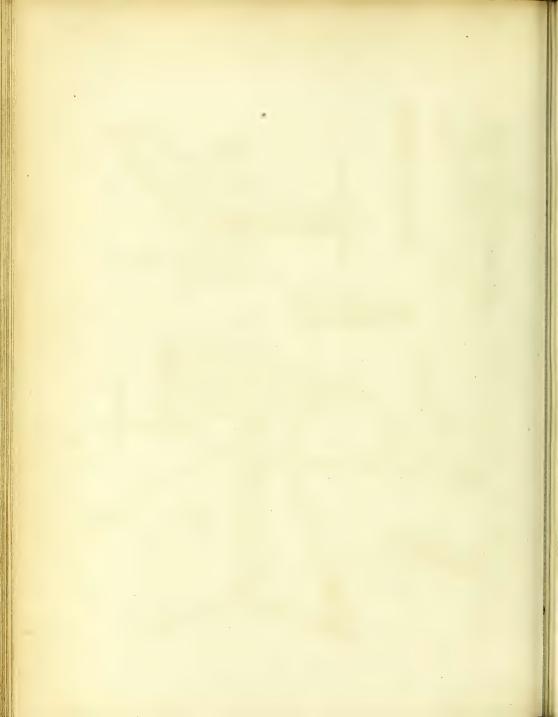


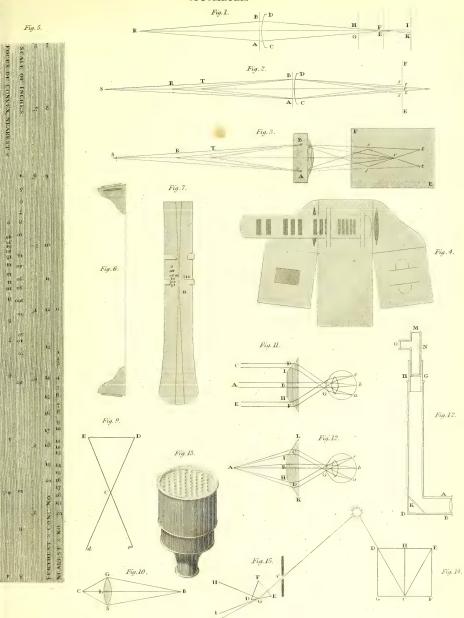


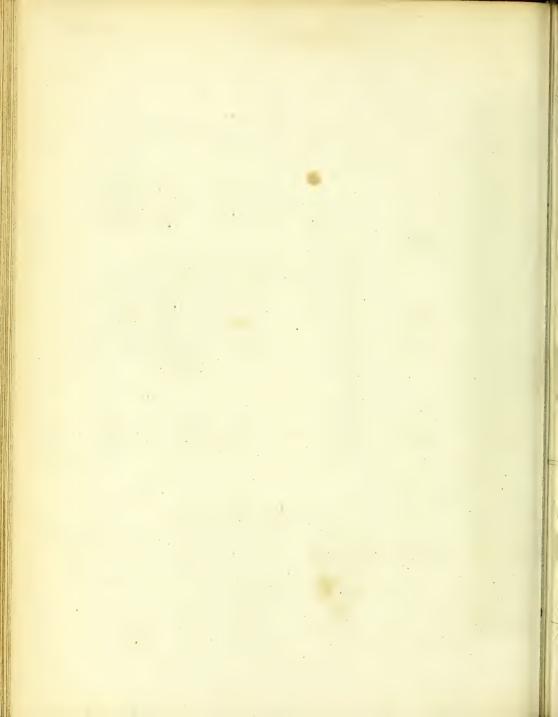




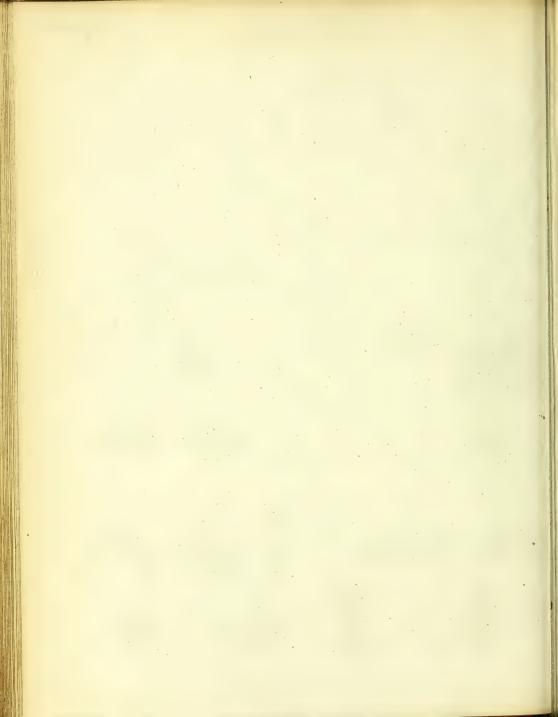


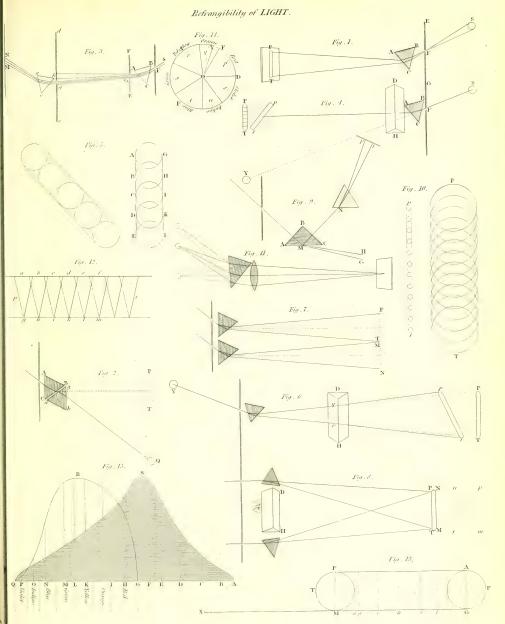


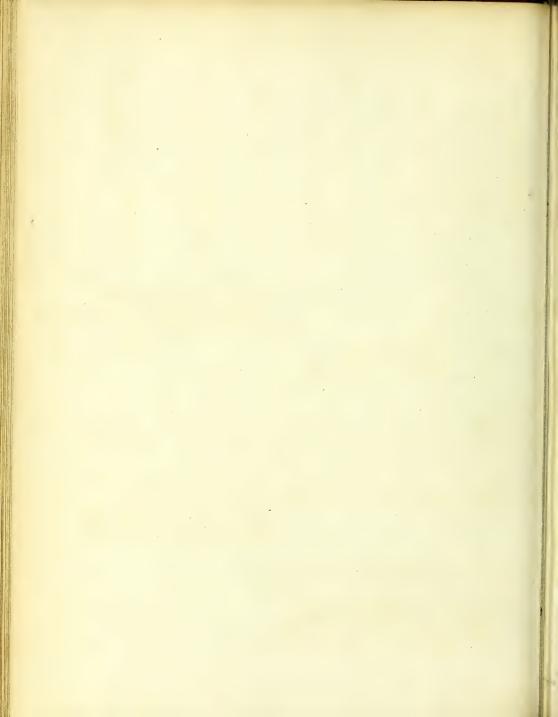


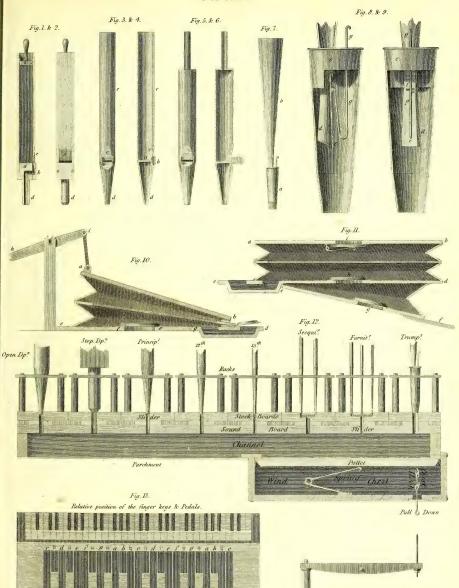


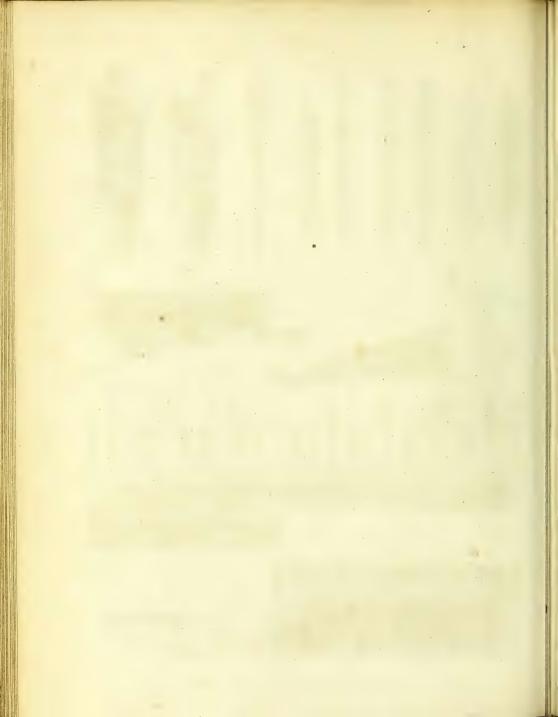
RAINBOW, REFRACTION. Fig.1. Fig. 4. Fig. 2. Fig. 7. Fig. 6. Fig. 8. Fig. 5. Fig. 3. Fig.10. Fig. 11. Fig. 12. Fig. 9. Fig. 14. Fig. 13. Fig. 16. Fig. 17. Fig. 18. Fig. 19. Fig. 23. Fig. 22.



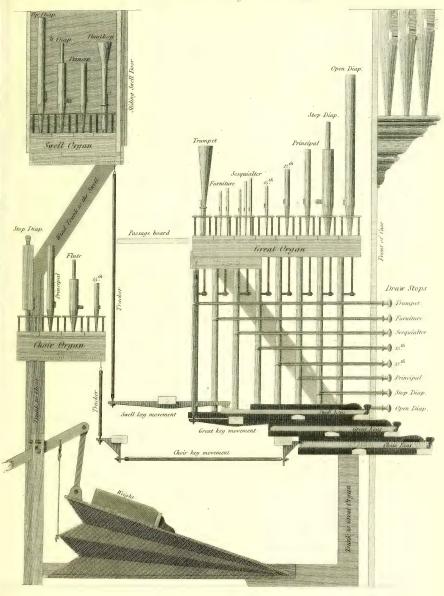


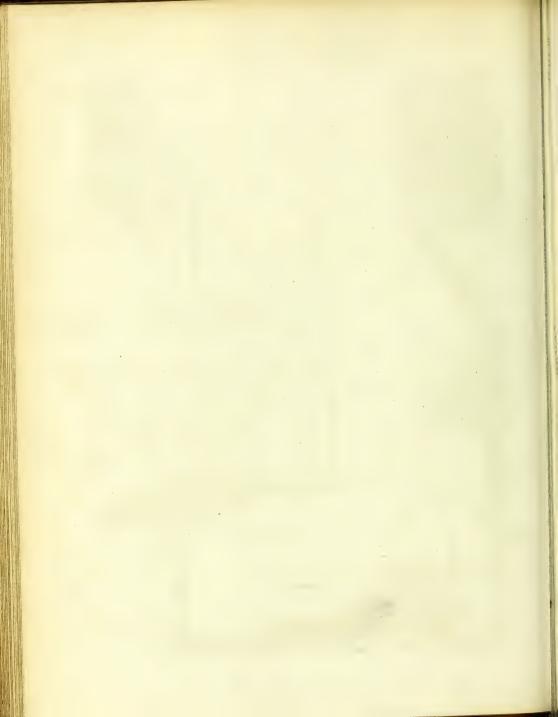




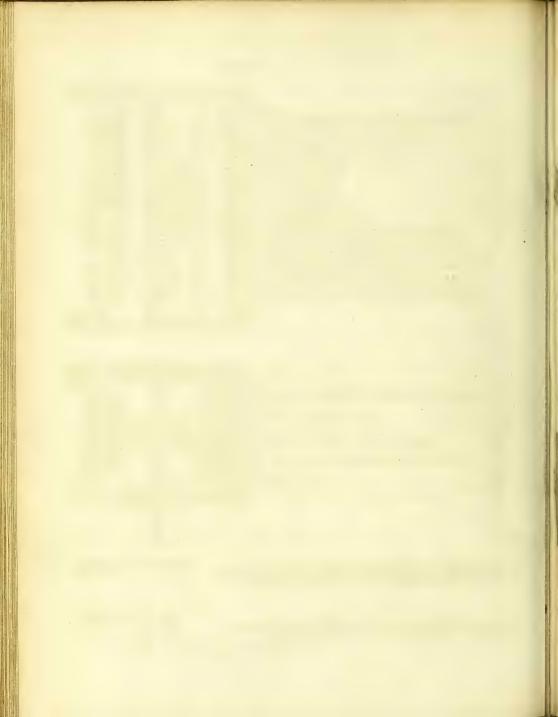


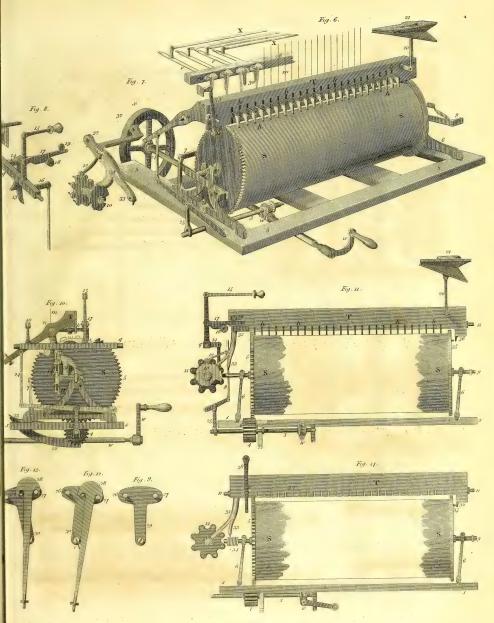
Interior Profile of an English Church ORGAN.





Made by MESSES FLIGHT and ROBSON, for the EARL of KIRKWALL.



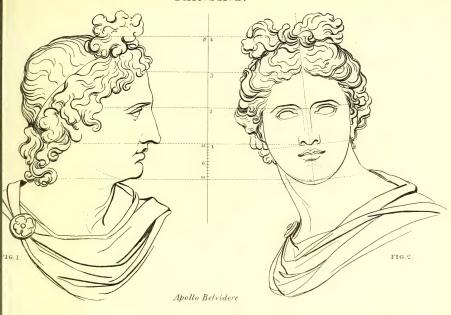


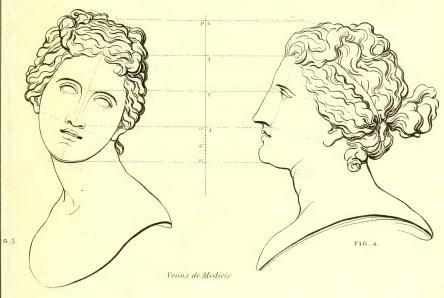
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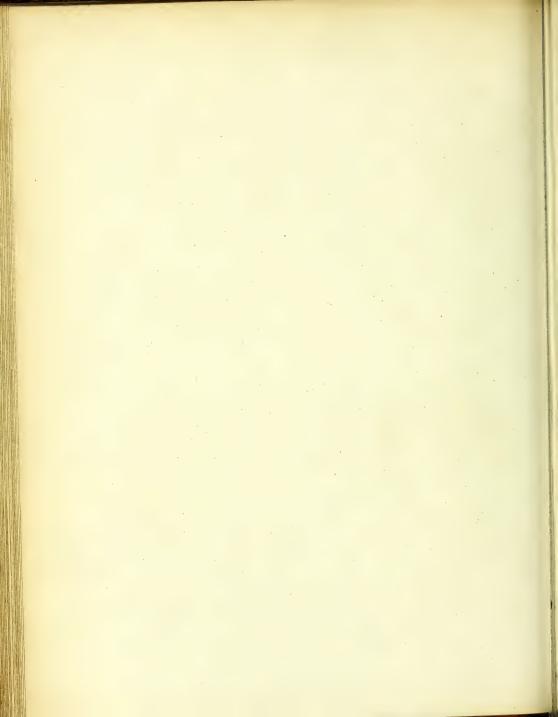
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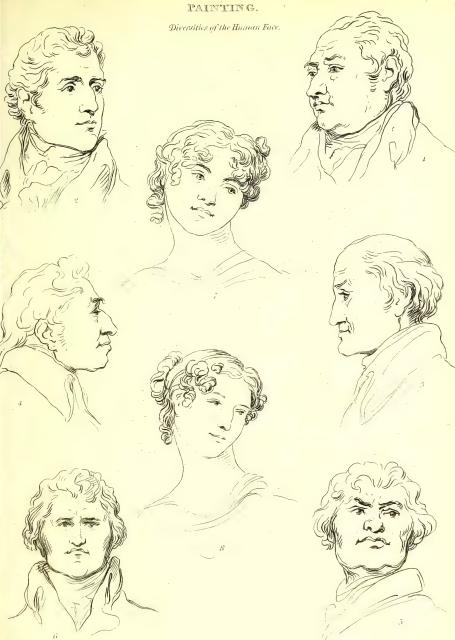


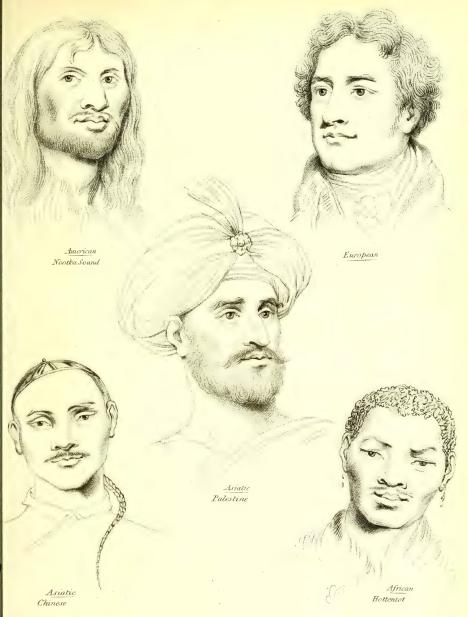


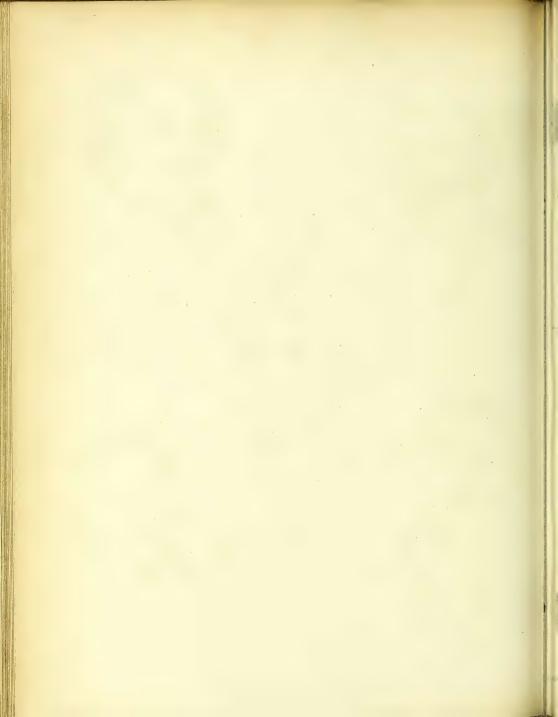


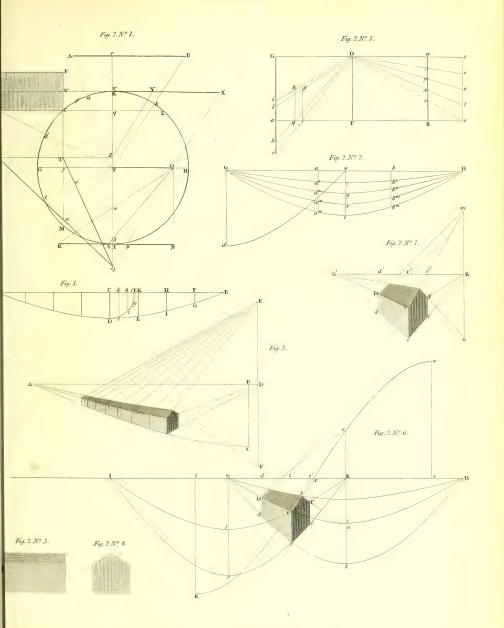


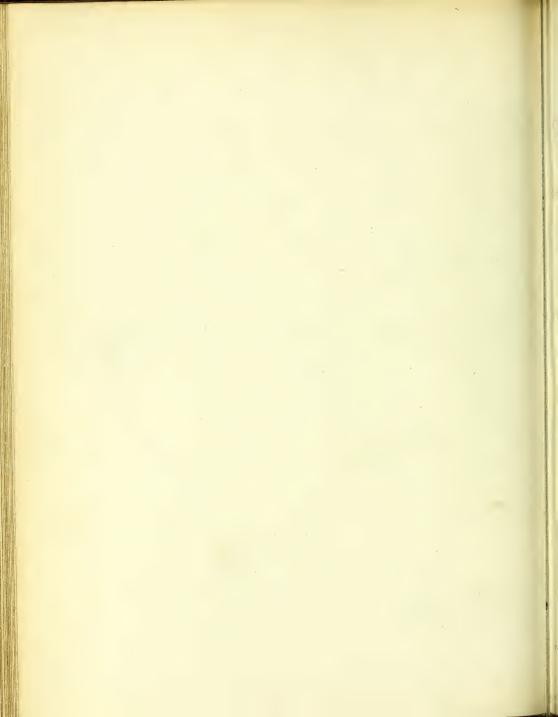


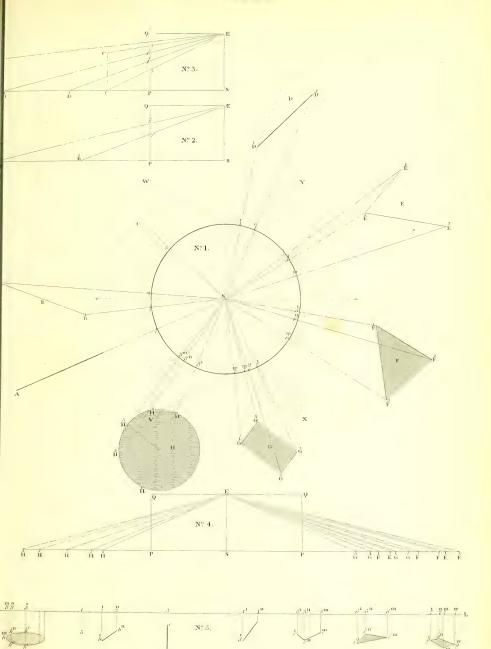






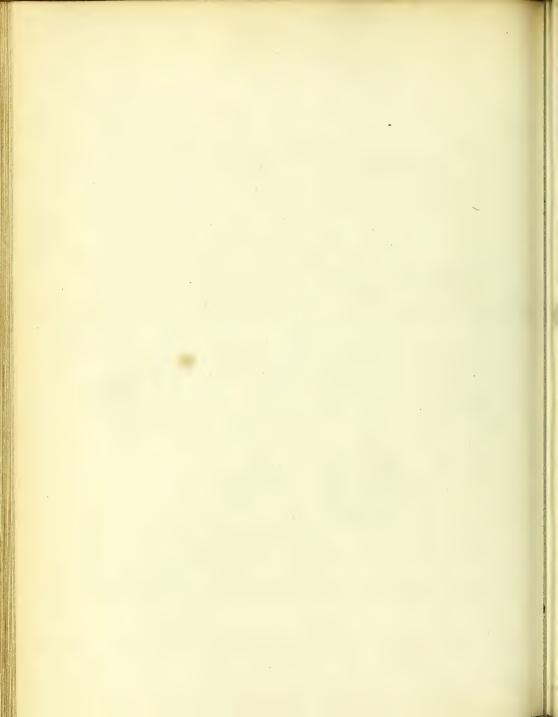




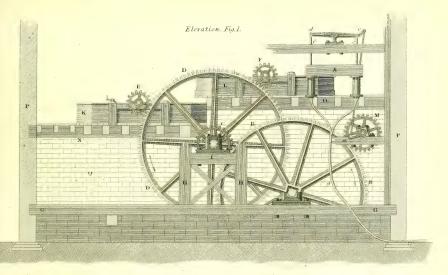


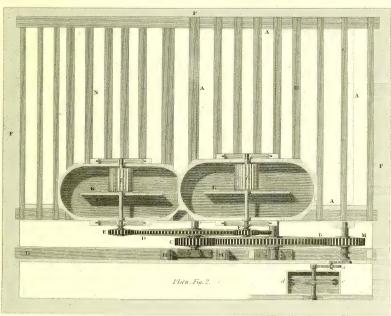
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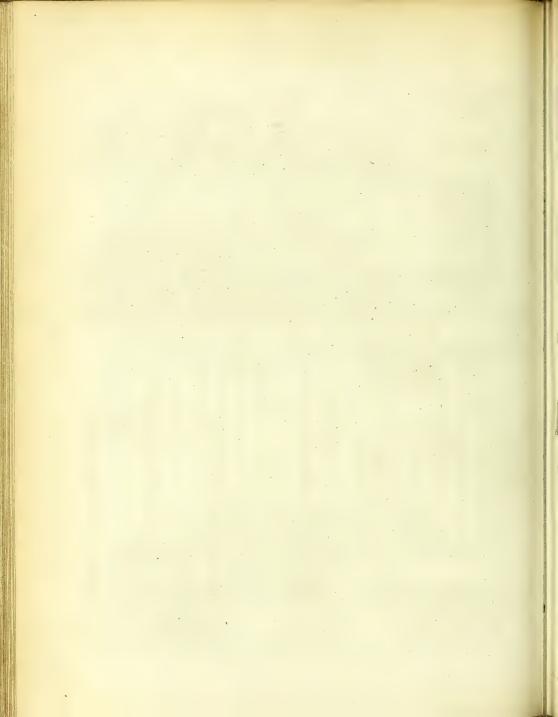
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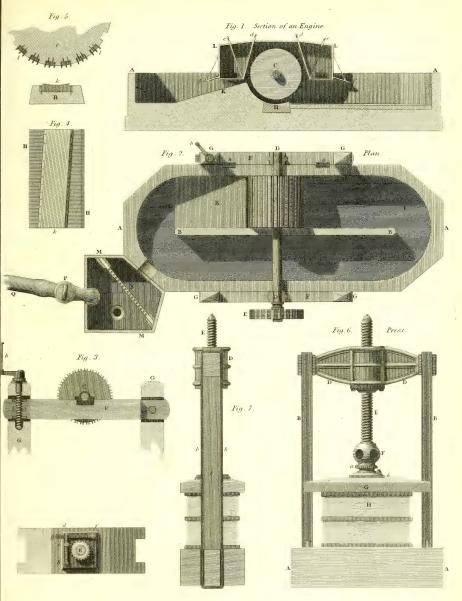


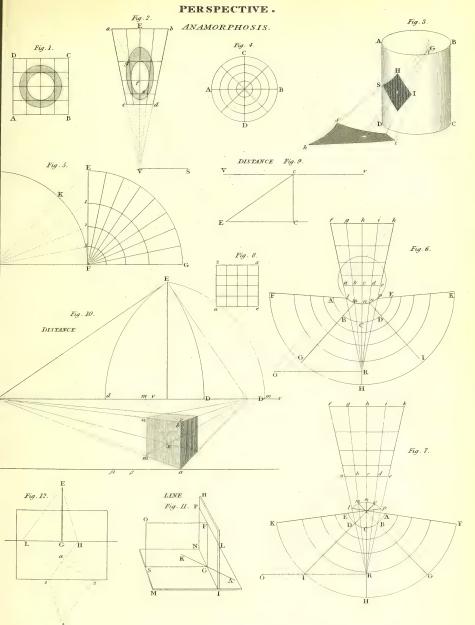
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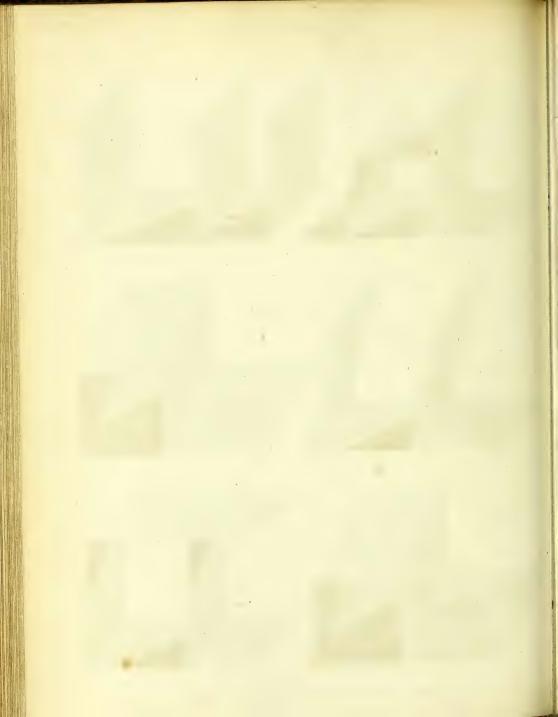


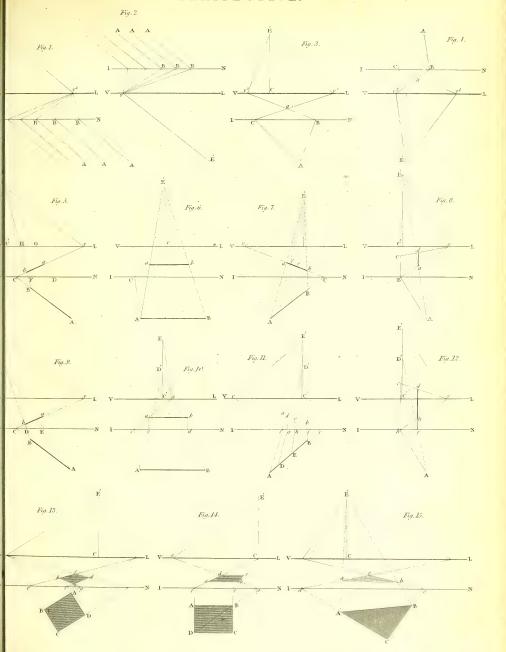


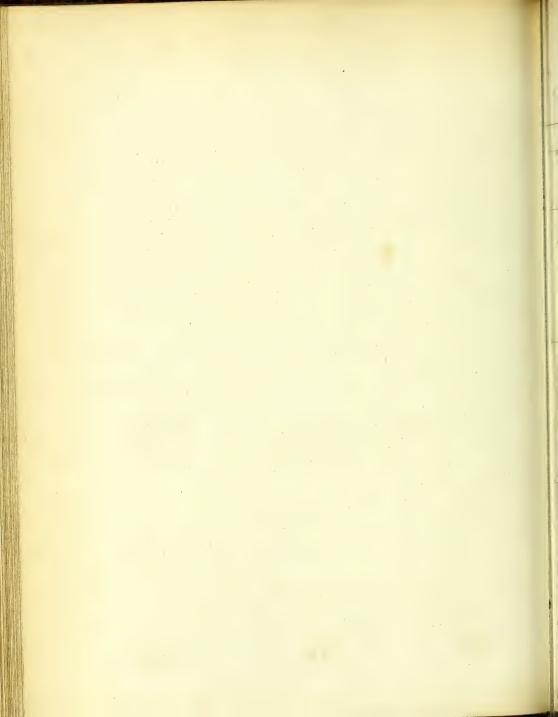


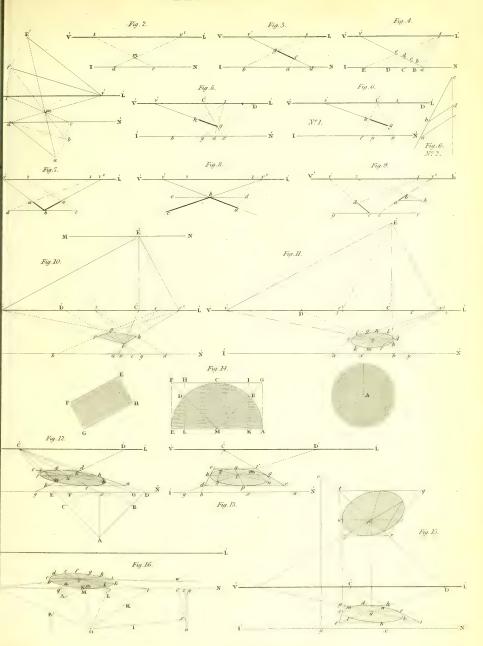


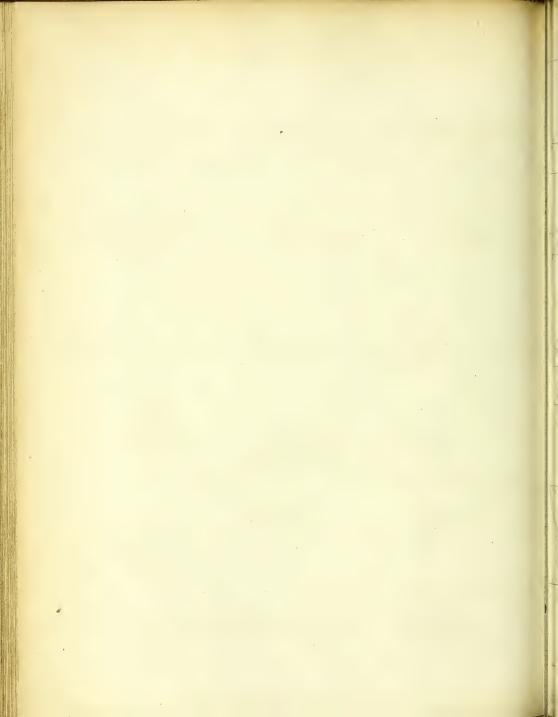


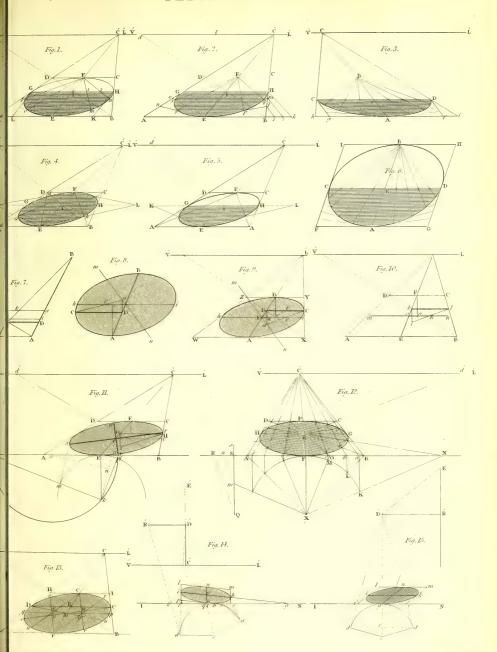


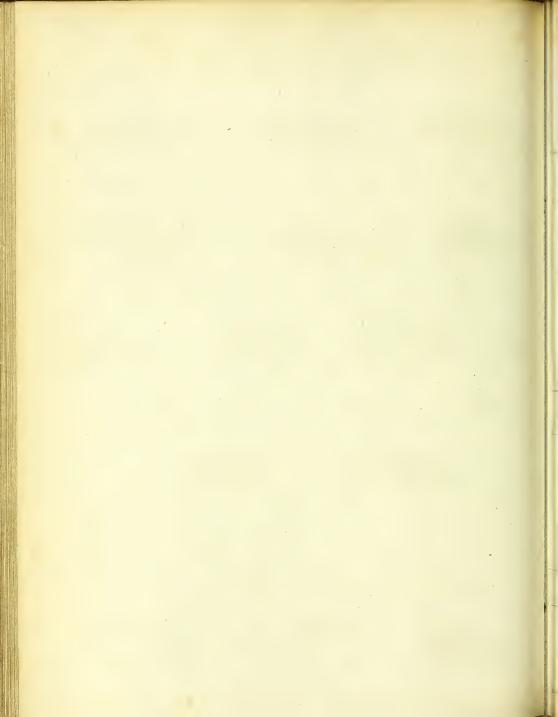


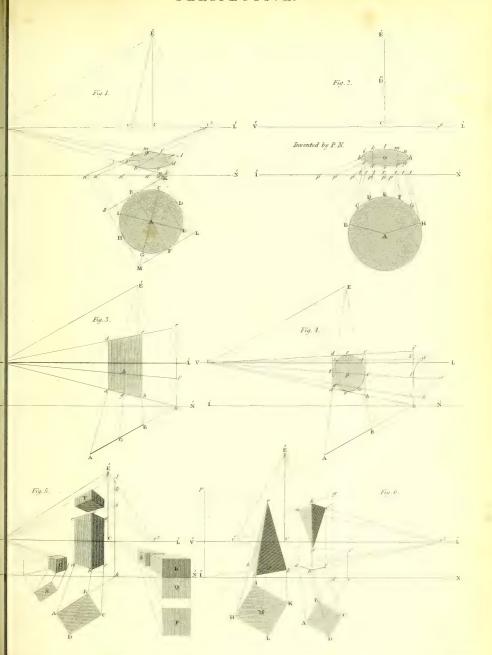


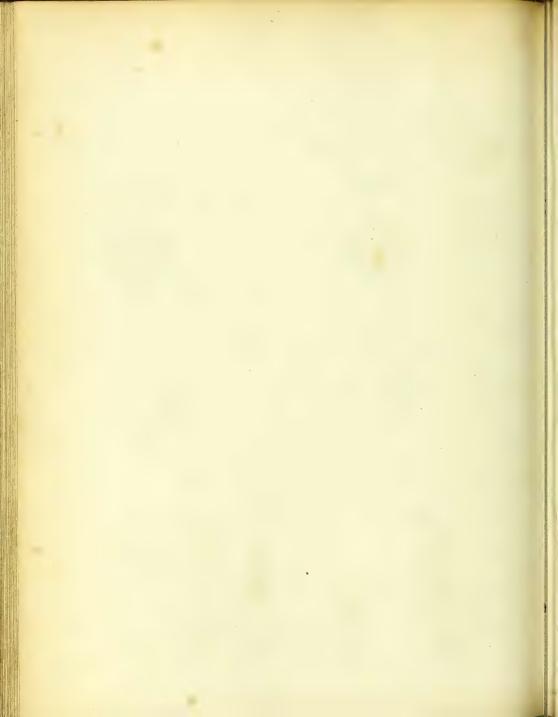


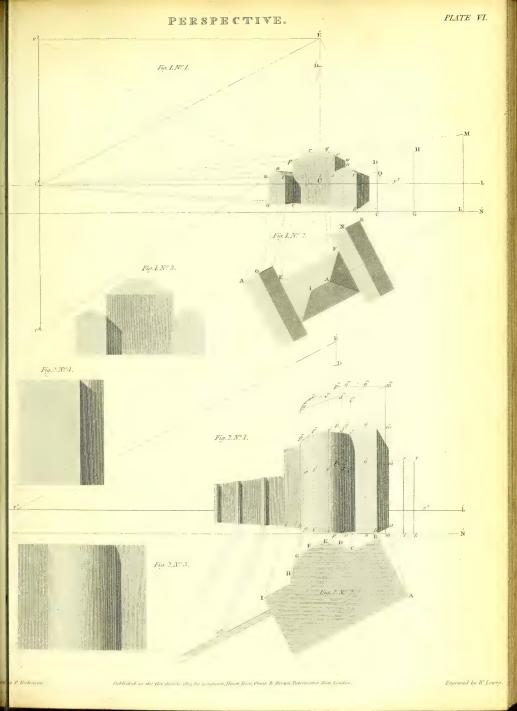


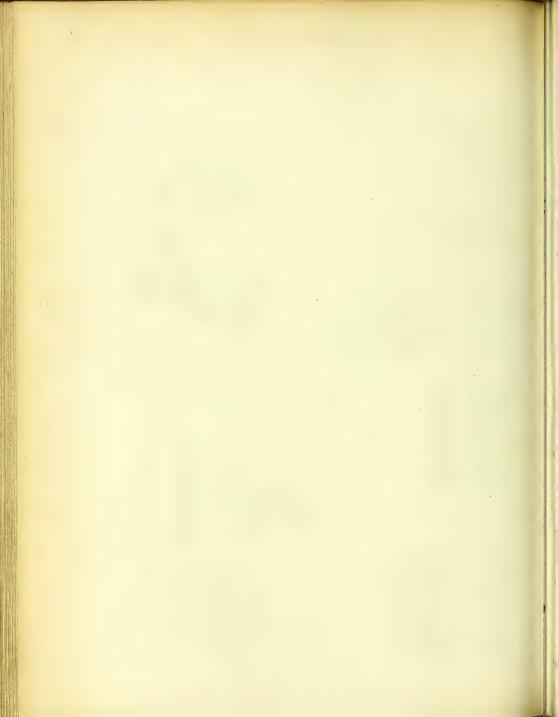


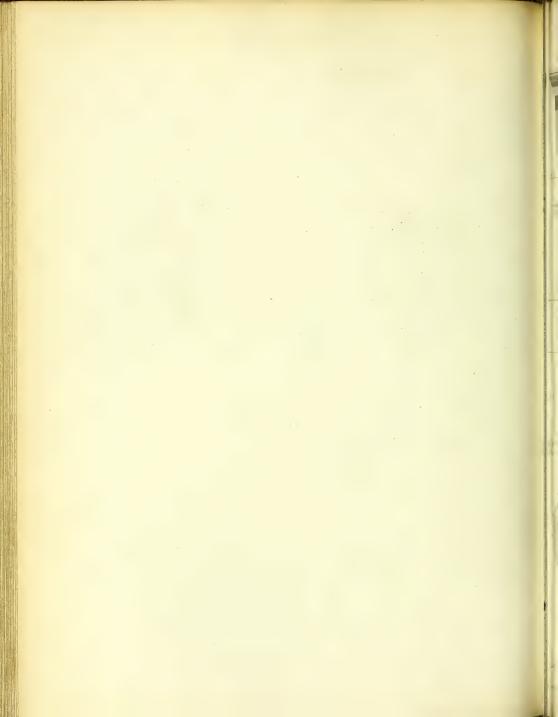


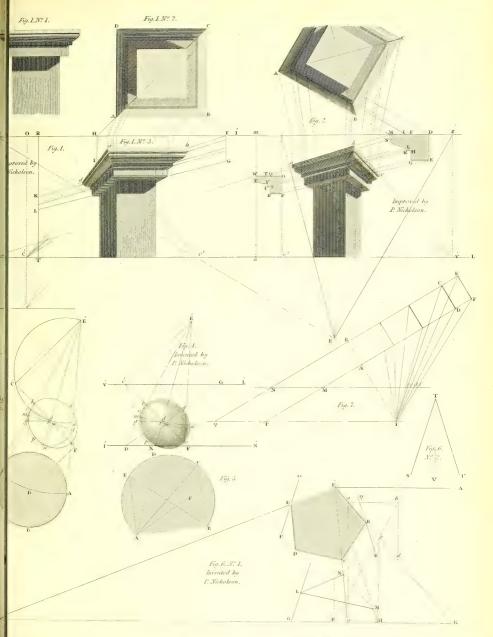


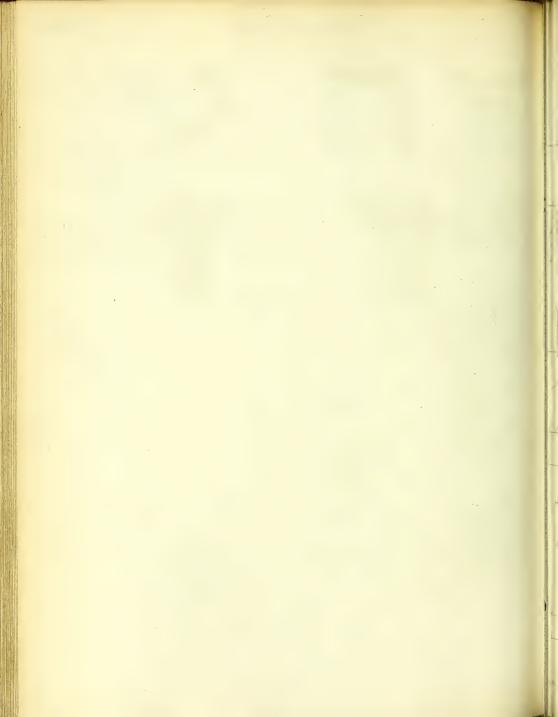


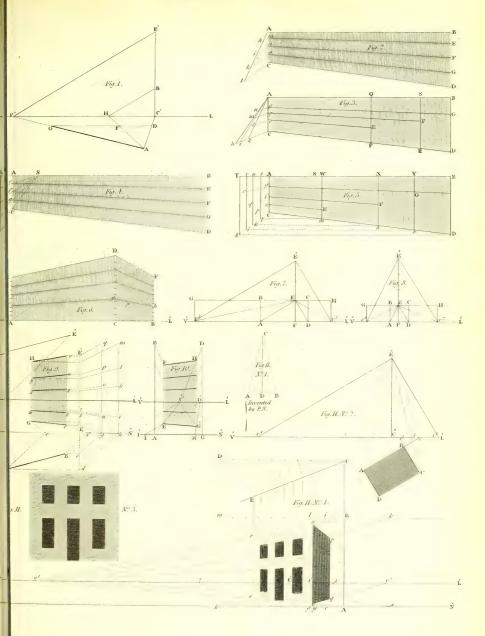


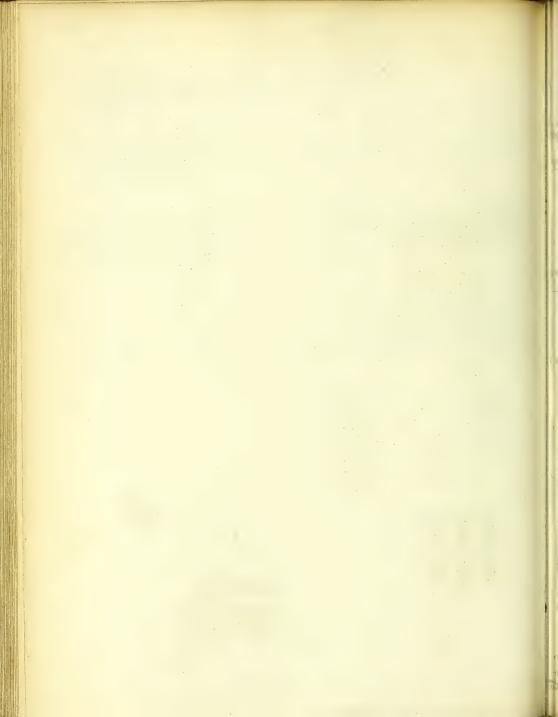


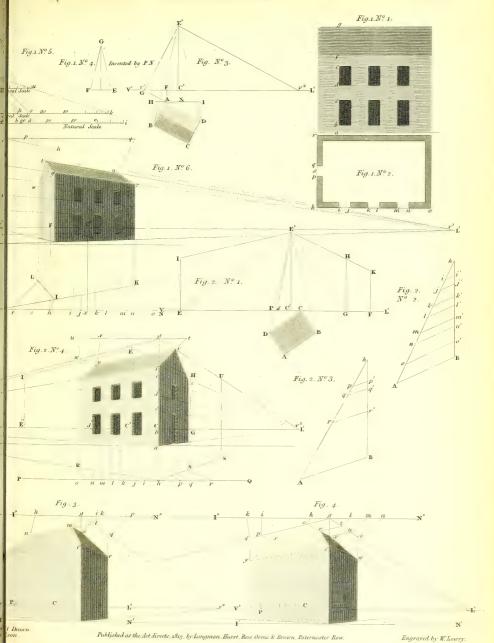


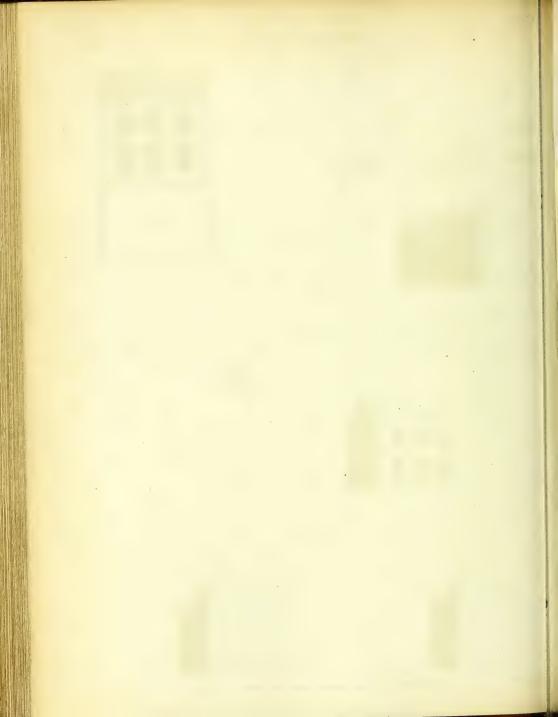


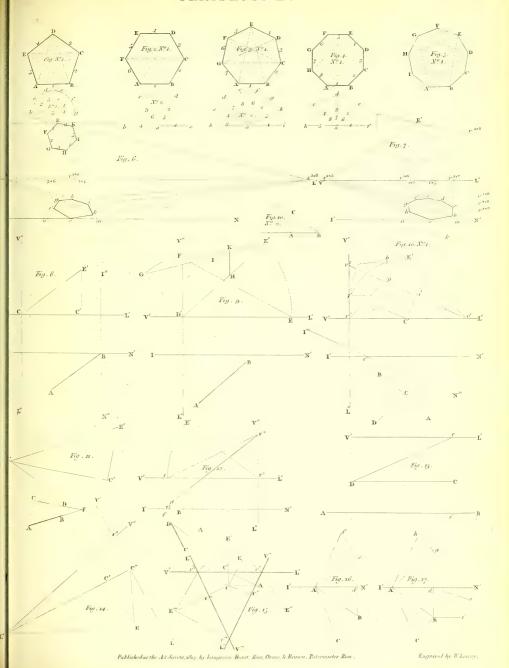


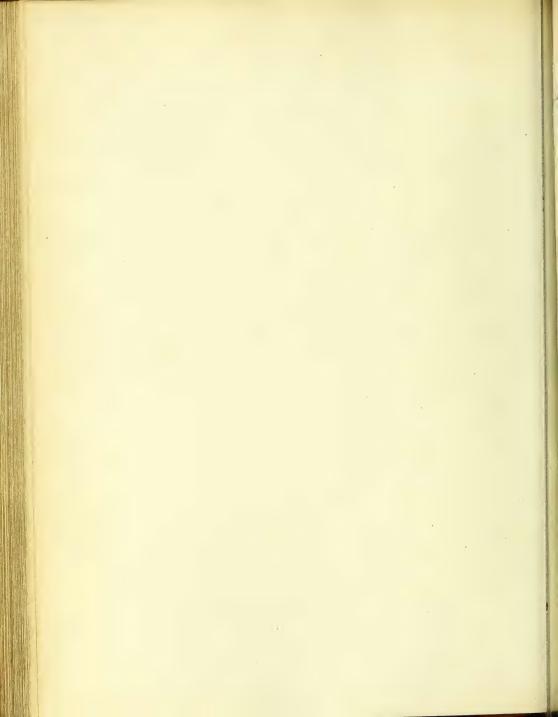


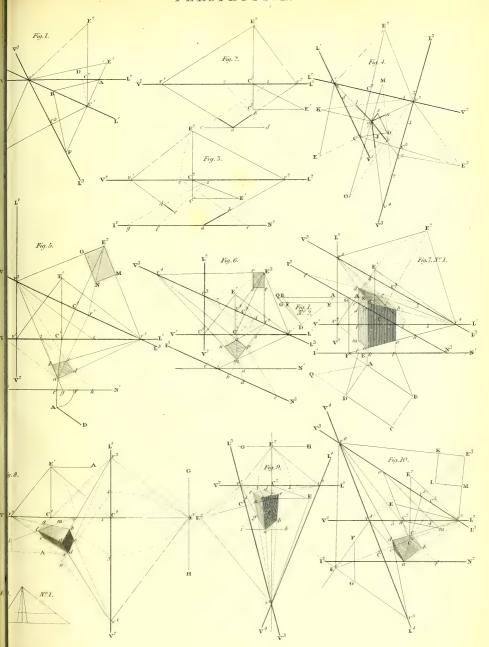








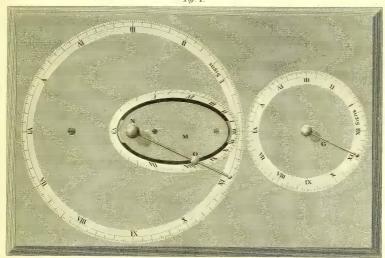


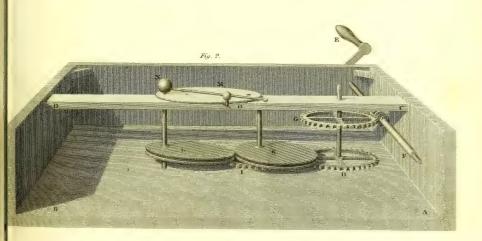


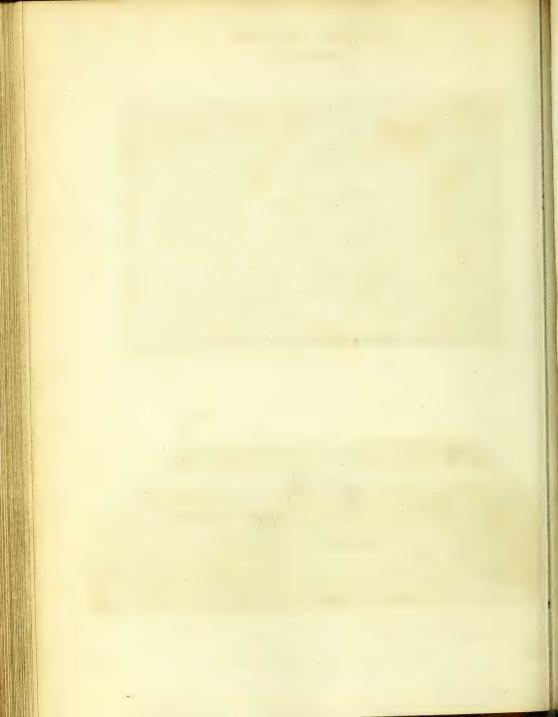


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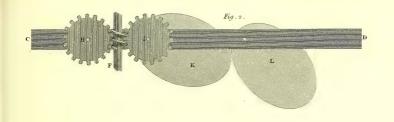


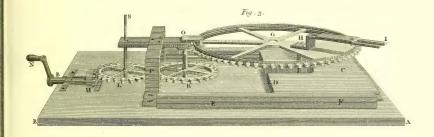


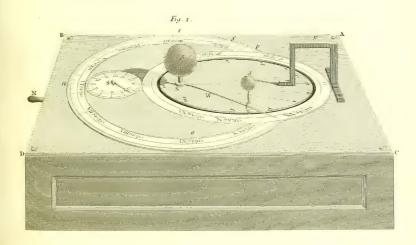


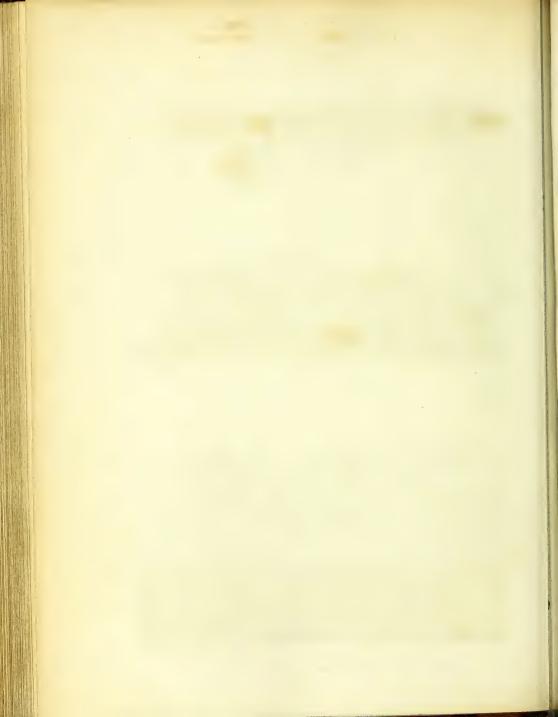


COMETARIUM,
by W. Jones.

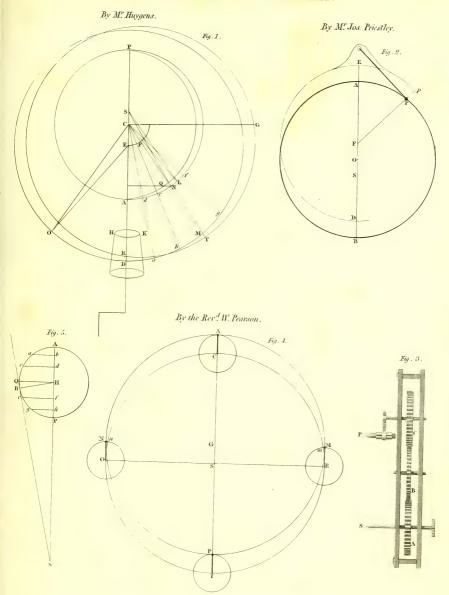








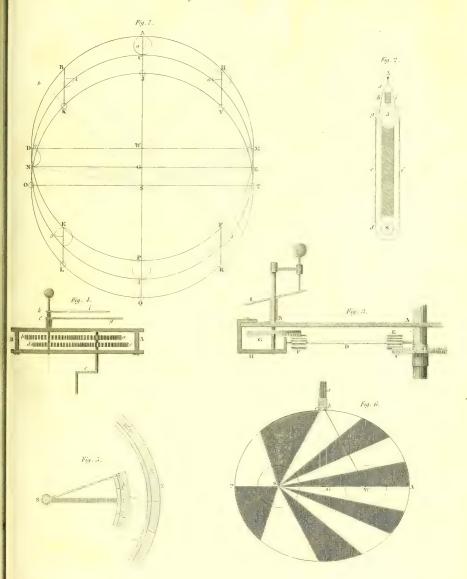
EQUATION MECHANISM OF A PLANET'S ORBIT.

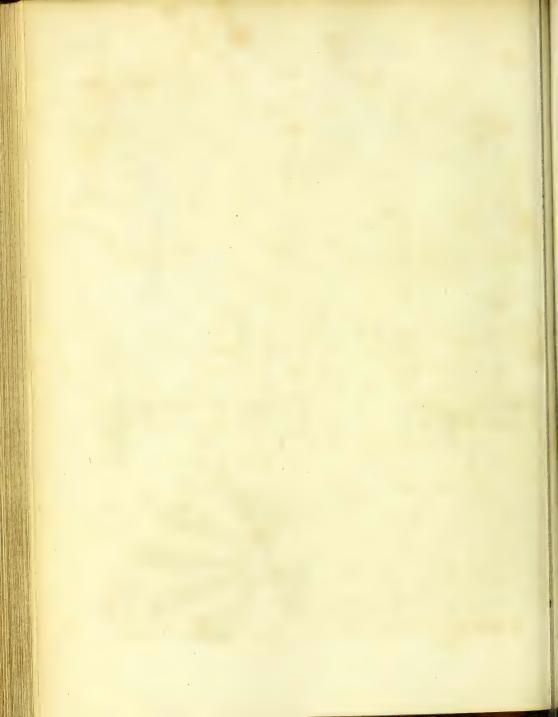


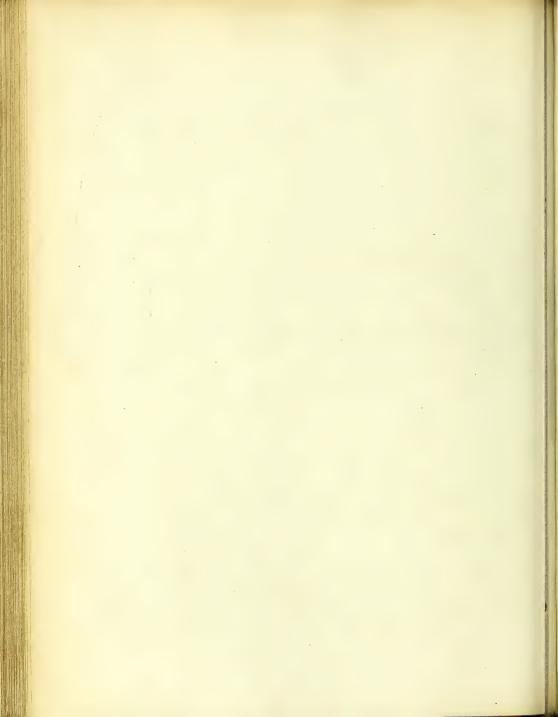


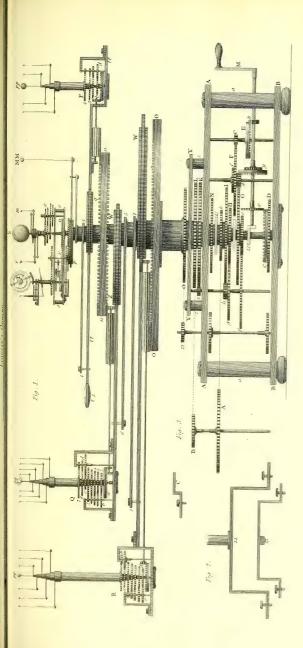
EQUATION MECHANISM OF A PLANET'S ORBIT,

By the Rev. W. Pearson.

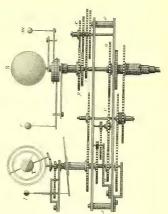




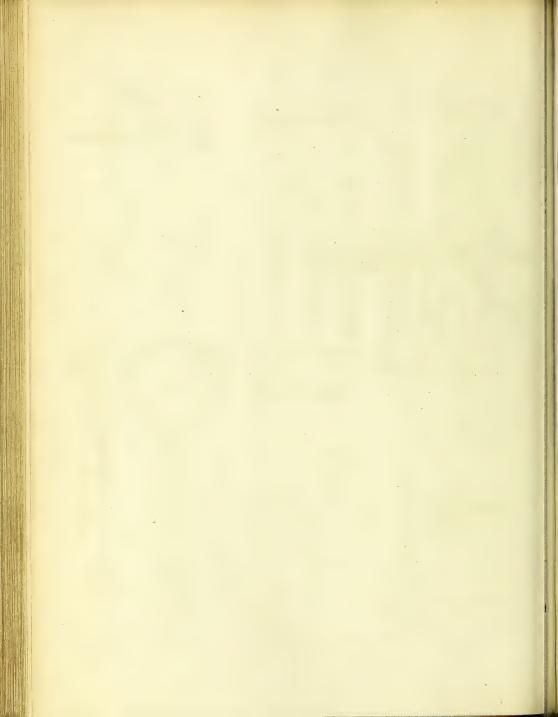




Plan of the arm which carries the Planet Saturn.



J. Favey delin.

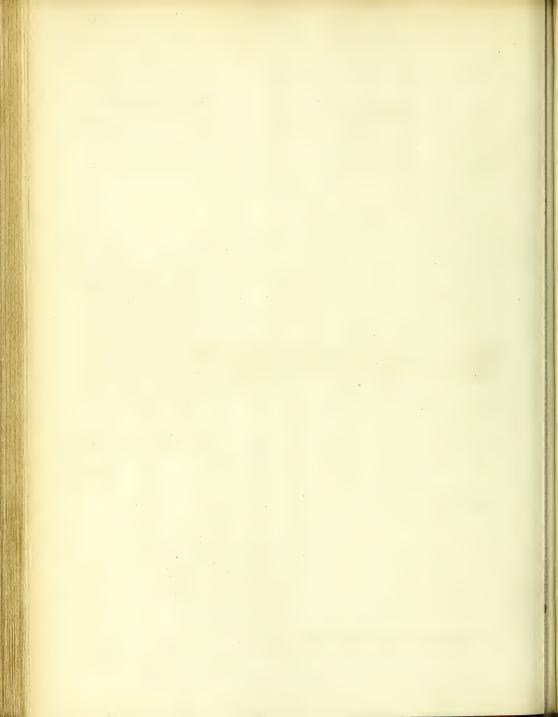


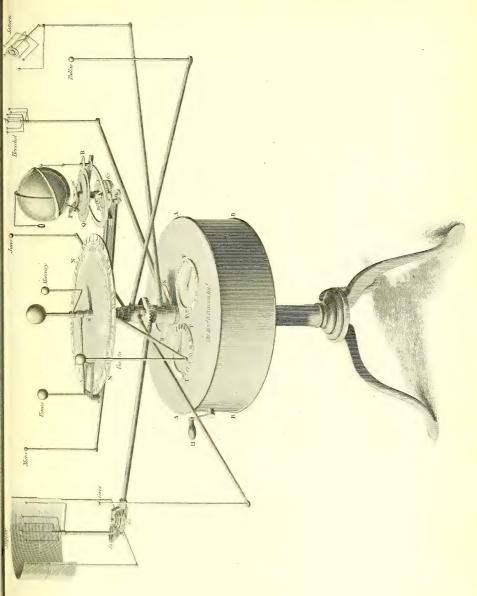
Published as the Act directs, 1815, by Longman, Hurst, Rees , Orme, & Brown, Paternoster Bow.

W.Loury Sculp.

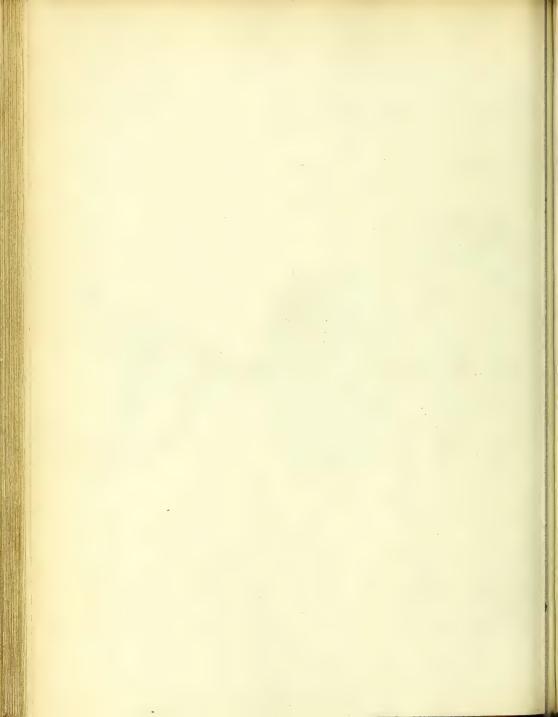
Rev M. Peurson Invent.

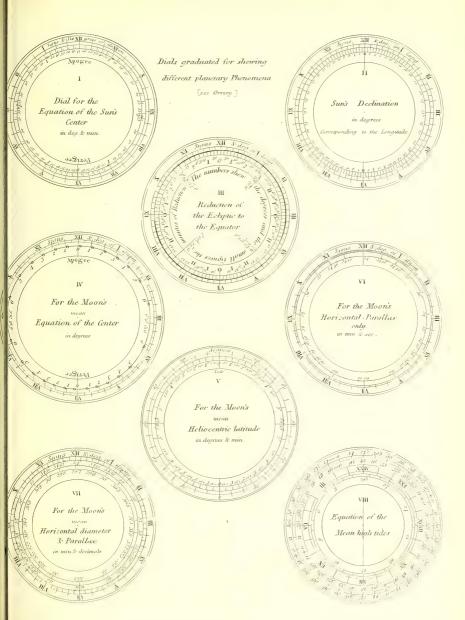
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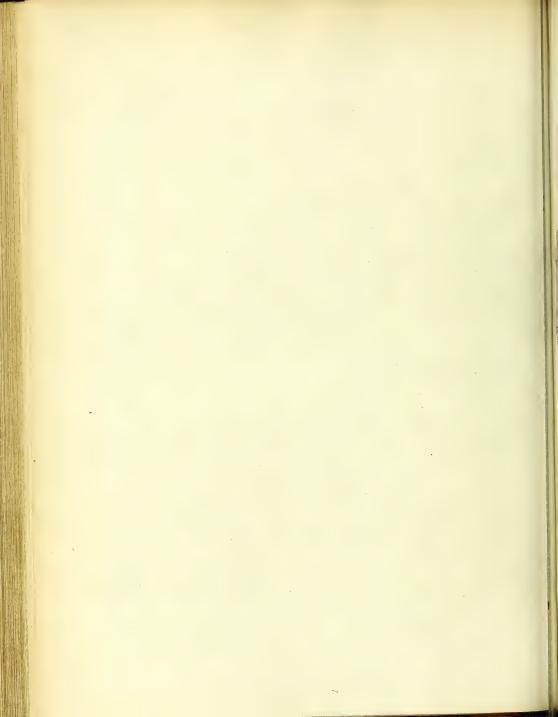




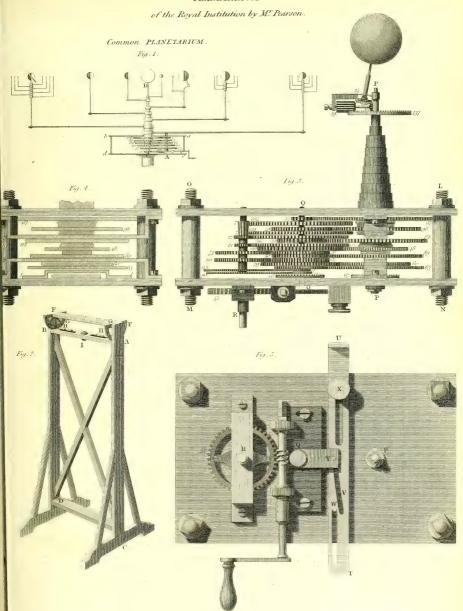
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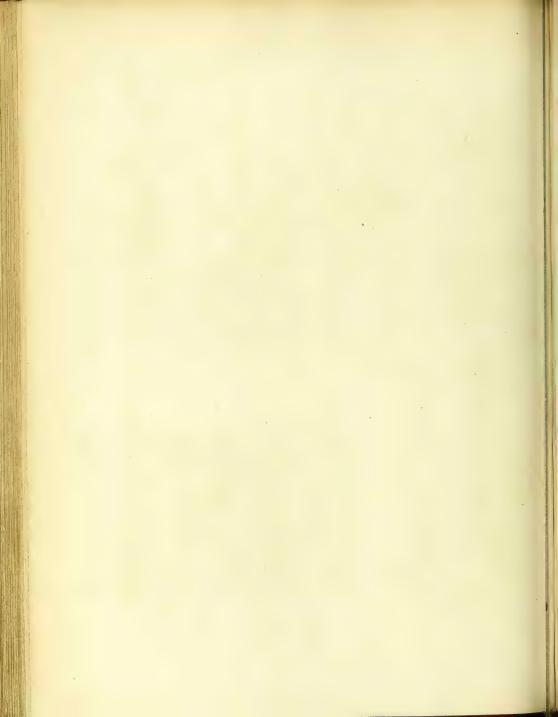


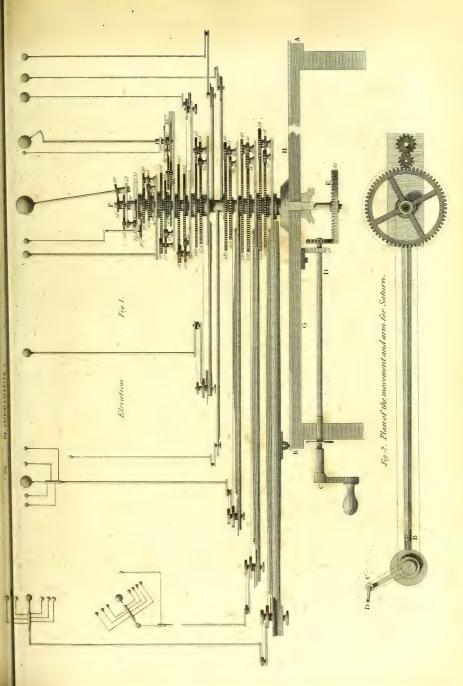




PLANETARIUM

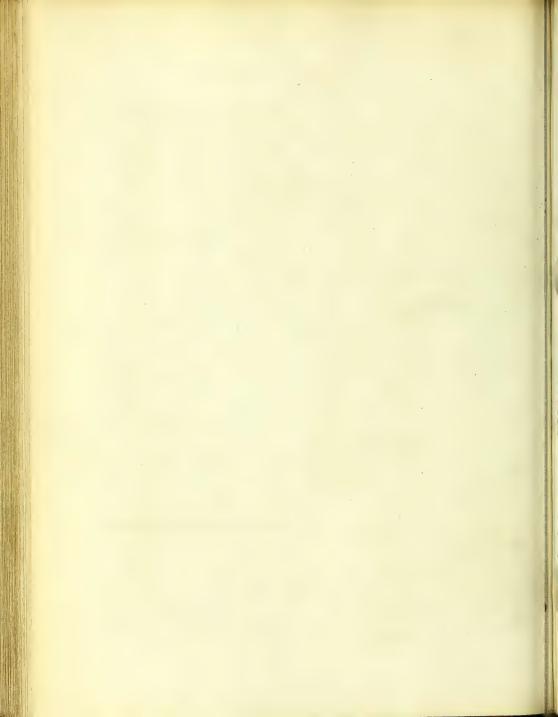


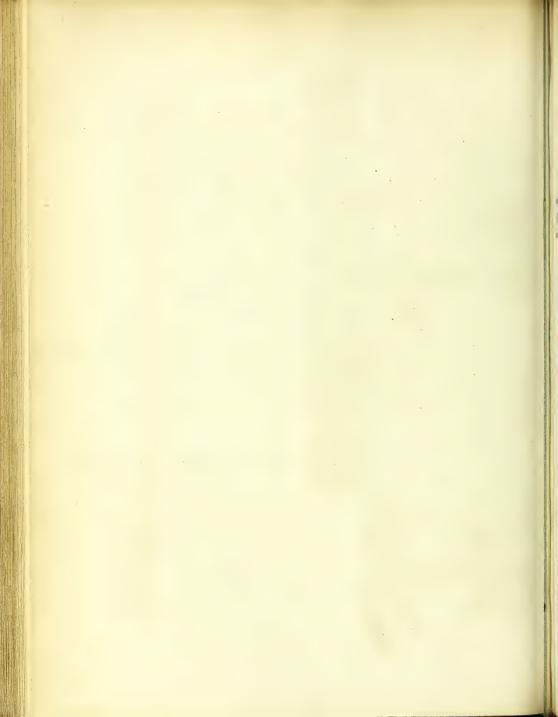




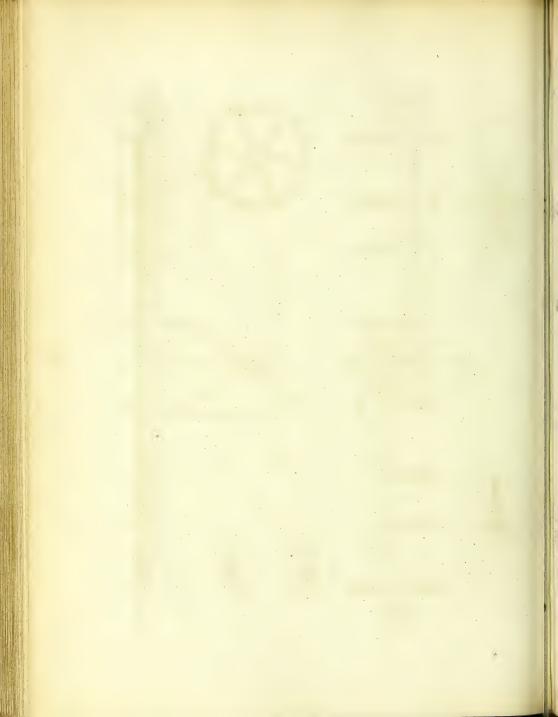
P. 11: 2. 2 - 42 At Frank . So. I. Townson House Day Ones & Proposition



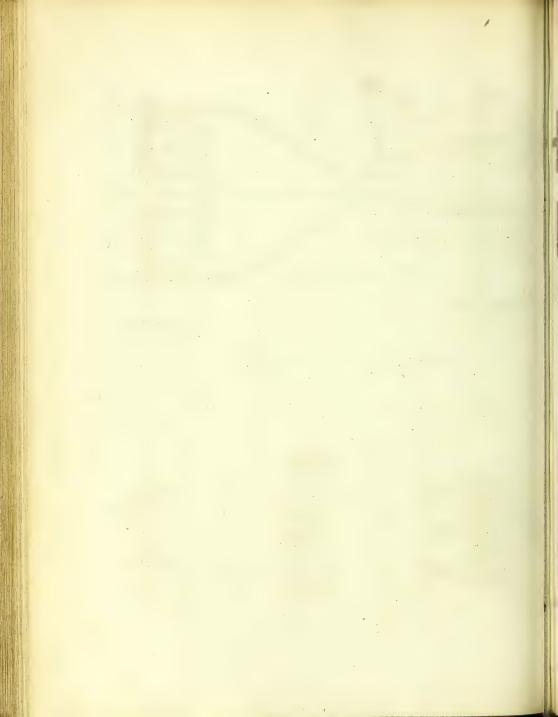




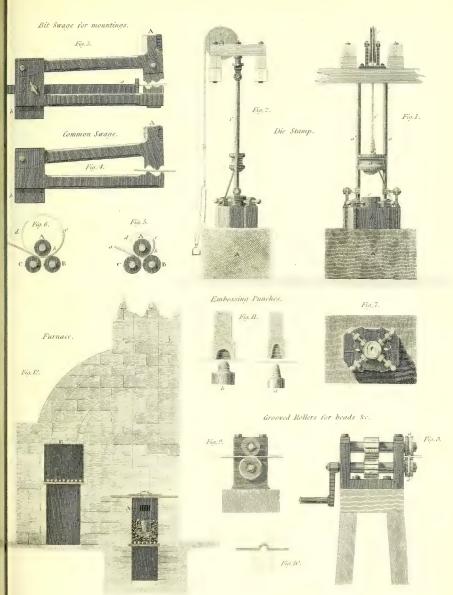
Published as the det directs, (304, by Longman, Harst, Rees, Orme, & Brown, Paternoster Re-

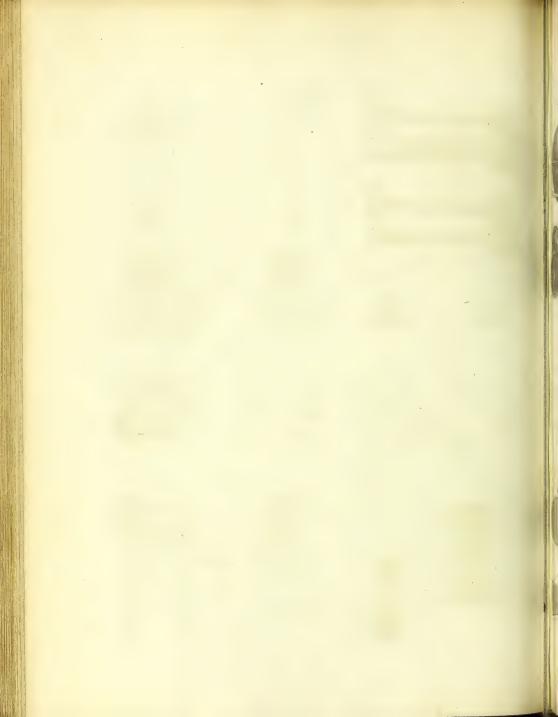


Published as the Act directs, 1824, by Longman, Hurst, Recs, Orme & Brown, Laternoster Row.



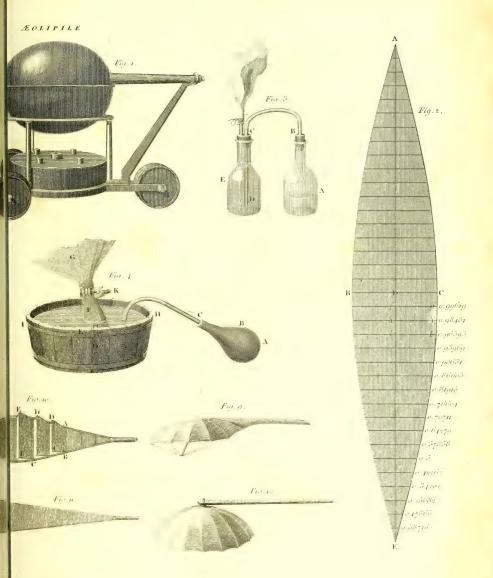
PLATED MANUFACTURE.





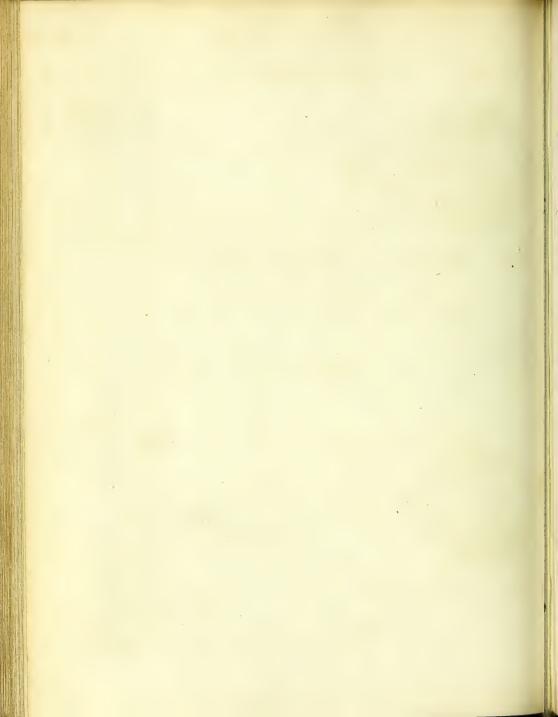
PREUMATICS.

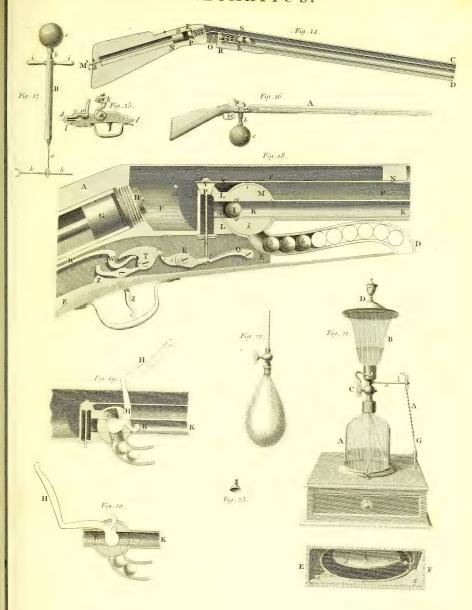
AEROSTATION



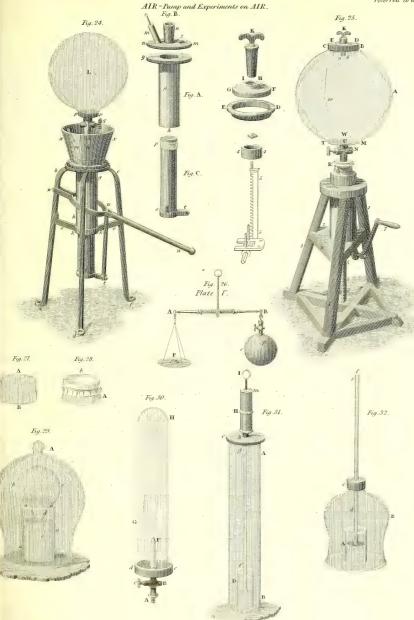


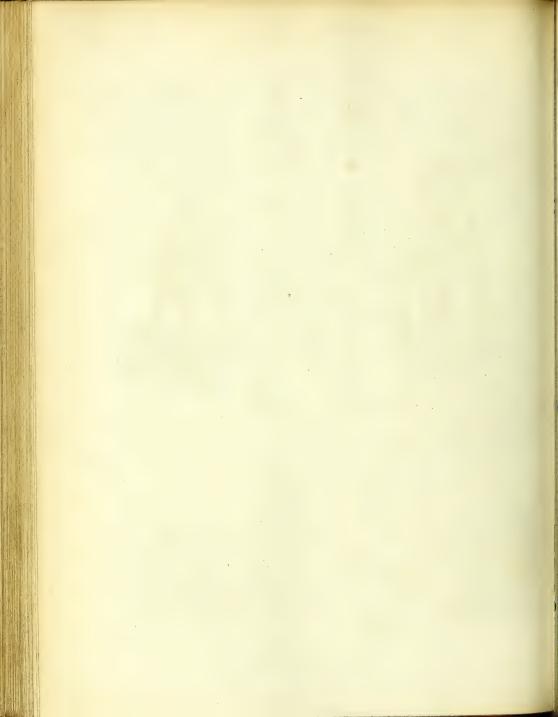
Published as the Act directs, Oct. 2. 1803, by Longman & Rees, Paternoster Row.

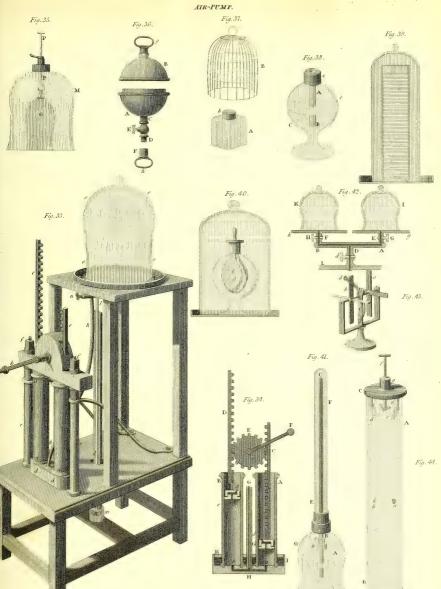


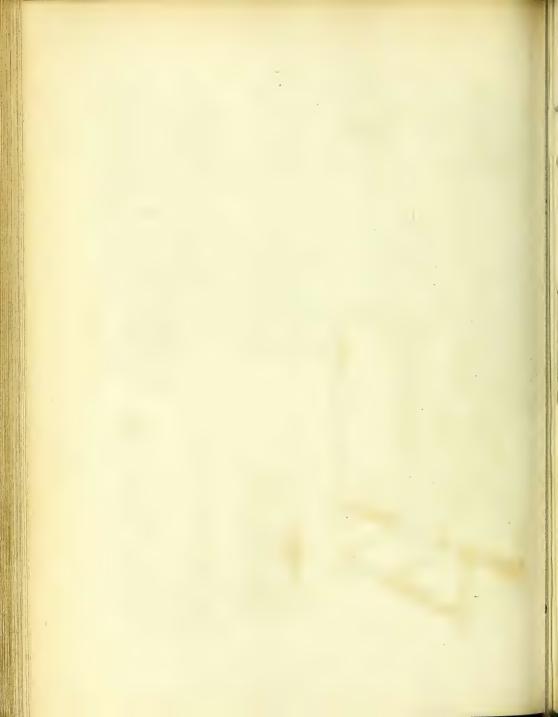




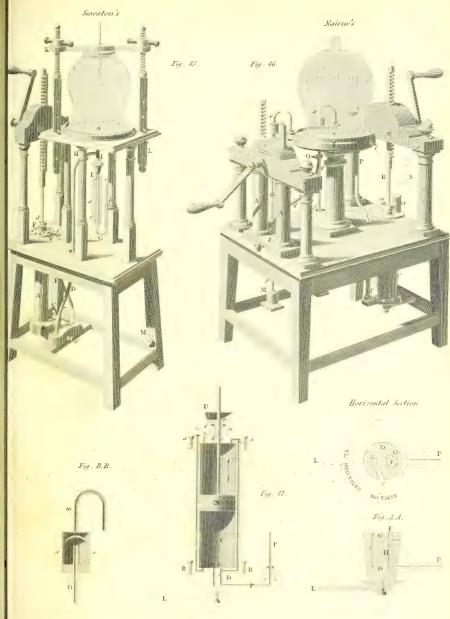


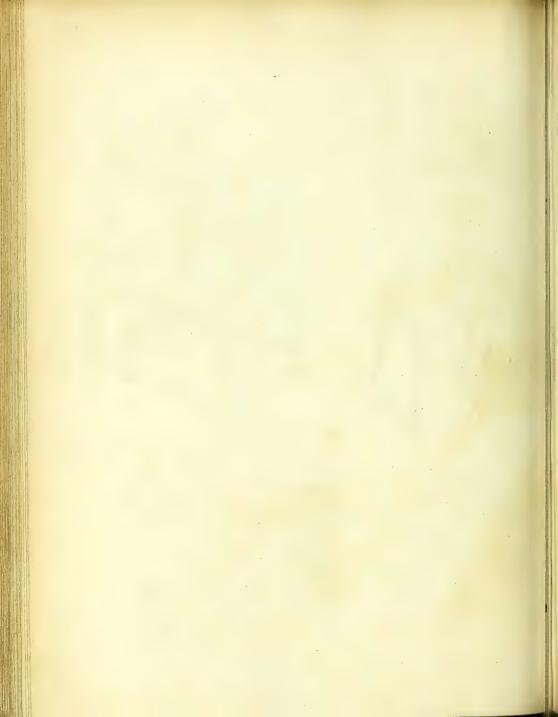




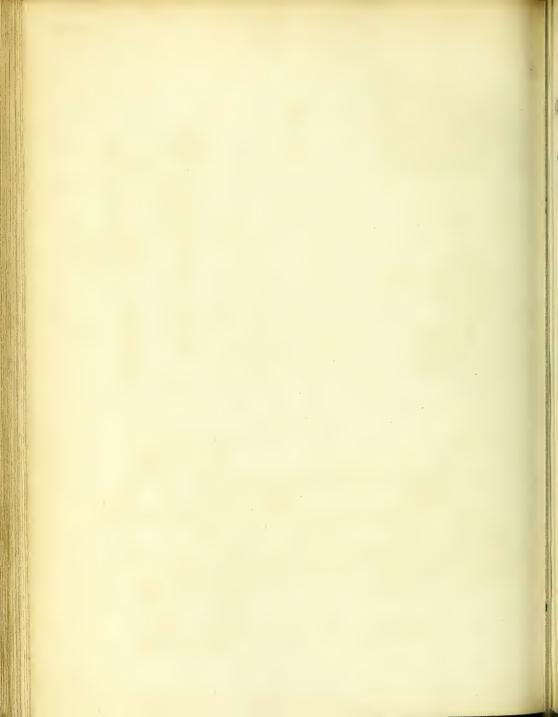


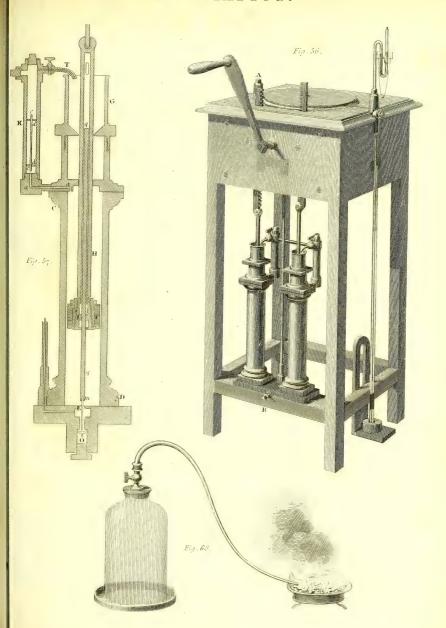
AIR PUMP.





Published as the Ardirets, 1822, by Longman, Hunst, Reas Orme & Brown, Paternoster Row.

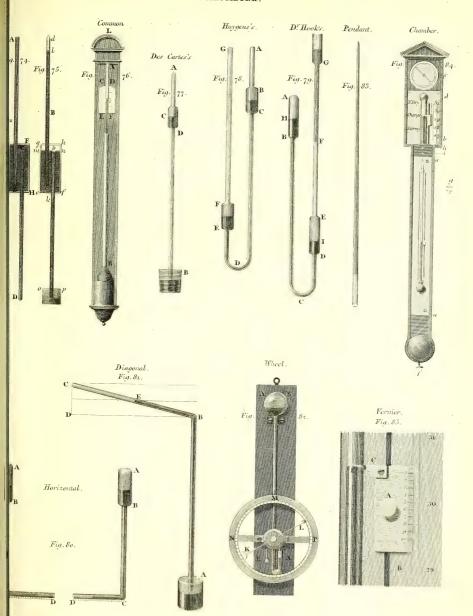


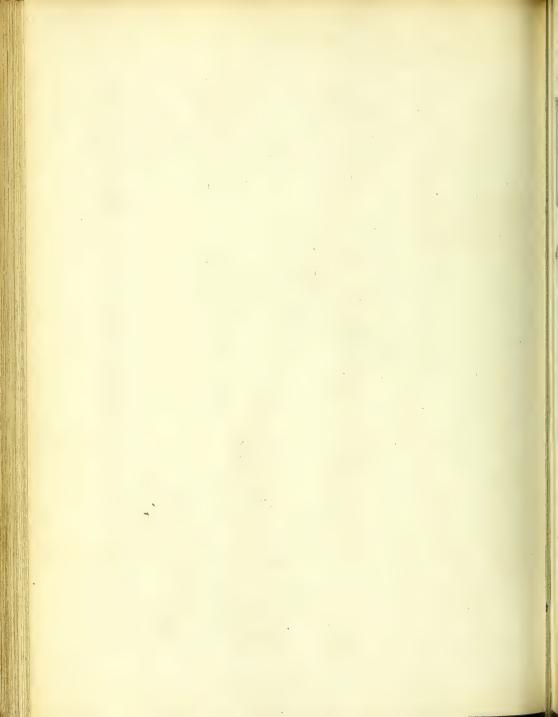


Published as the Act directs, Sept. 24 New by Longman & Rees Paternester Ren.



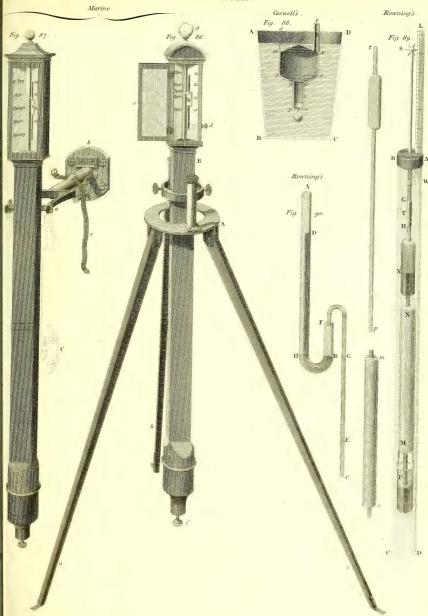
BAROMETER.



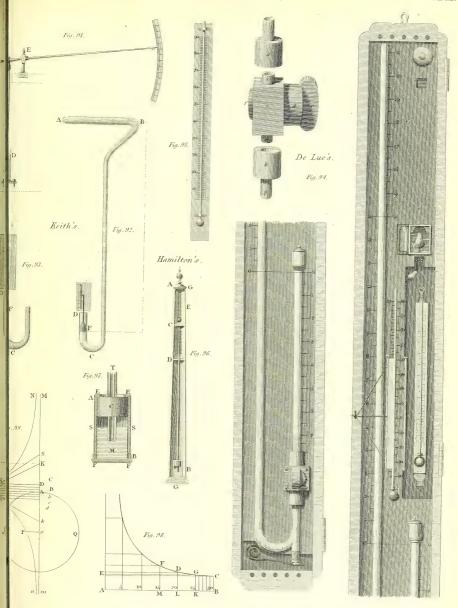


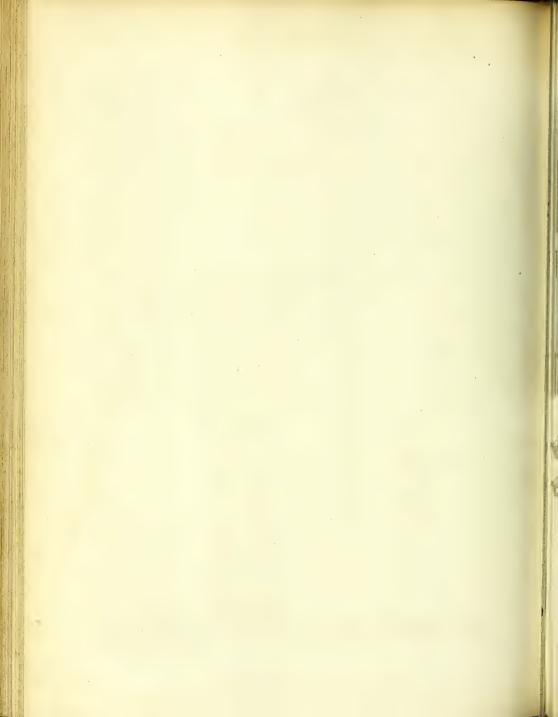
PNEUMATICS.

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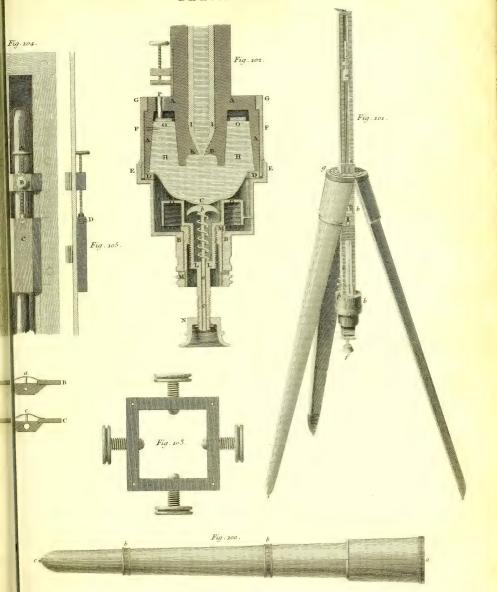


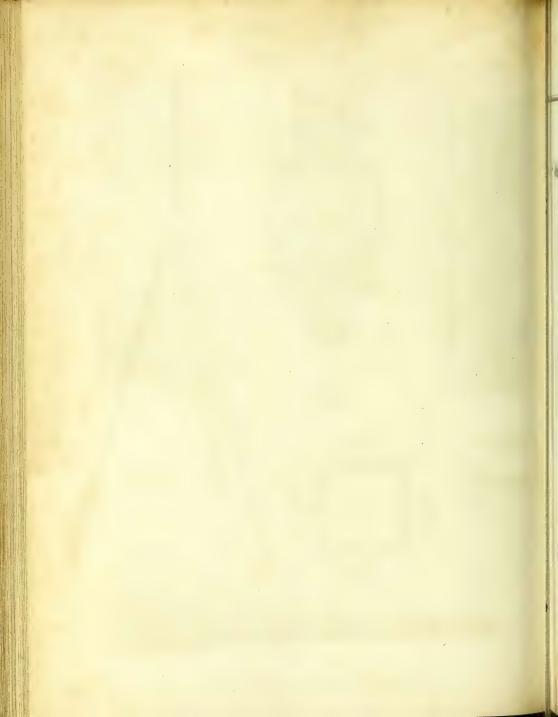


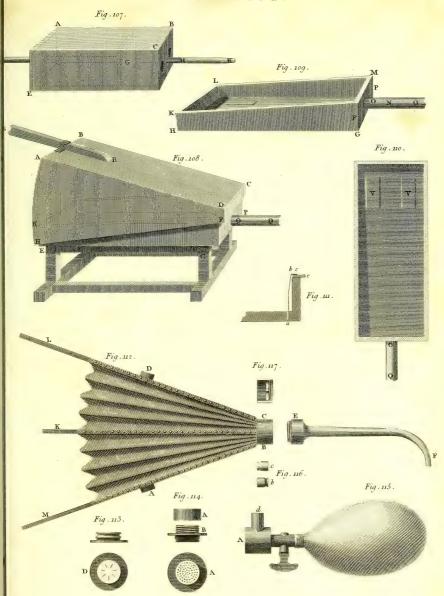


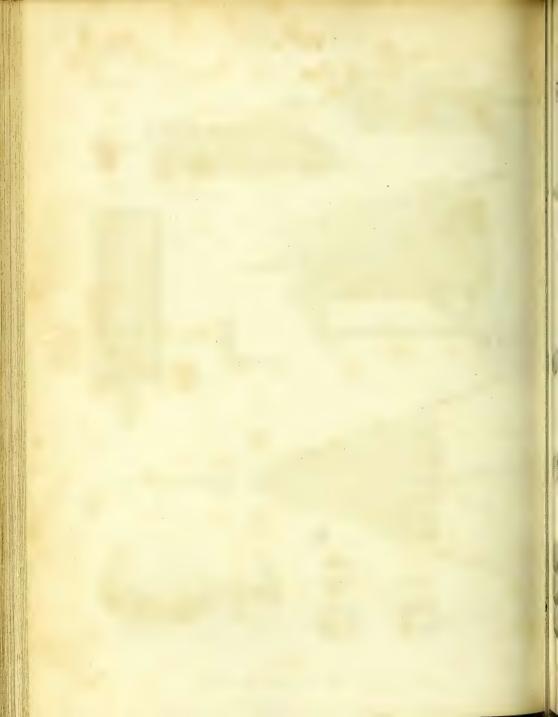


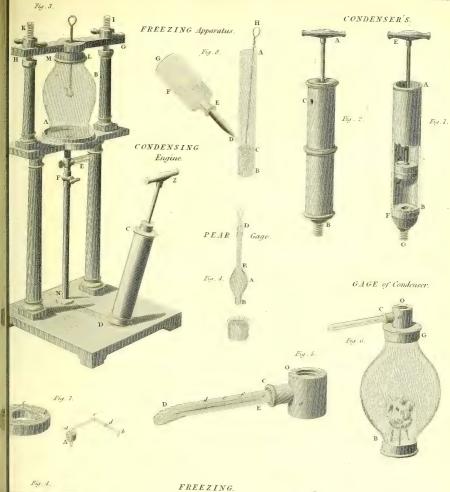
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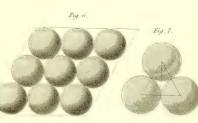


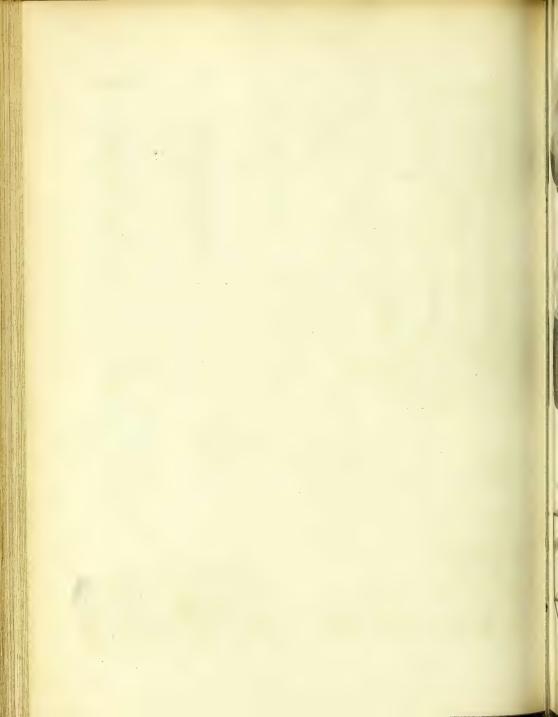




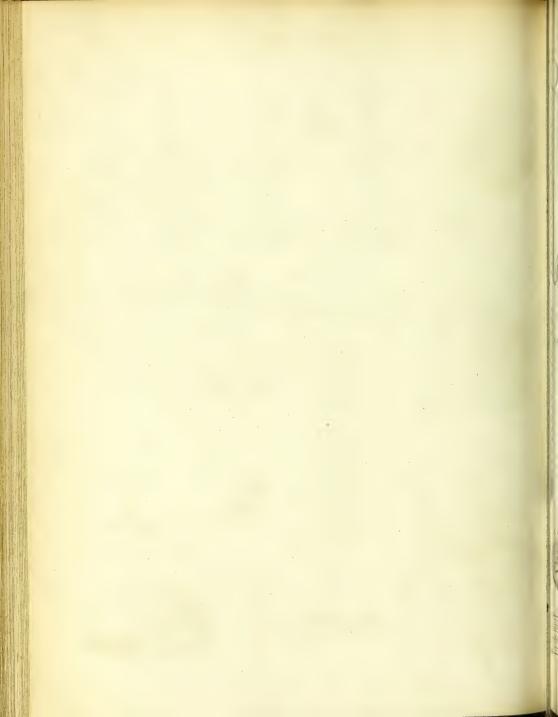




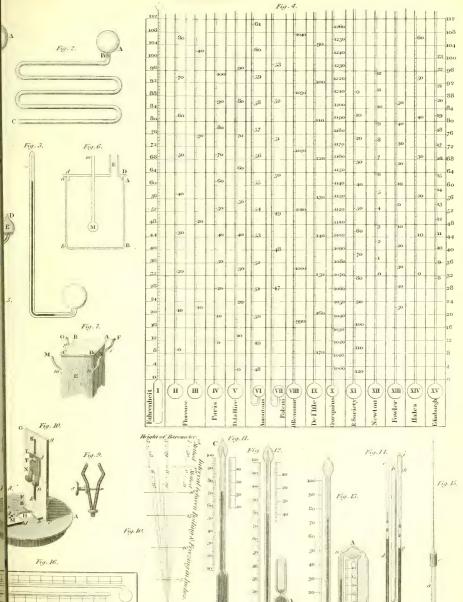


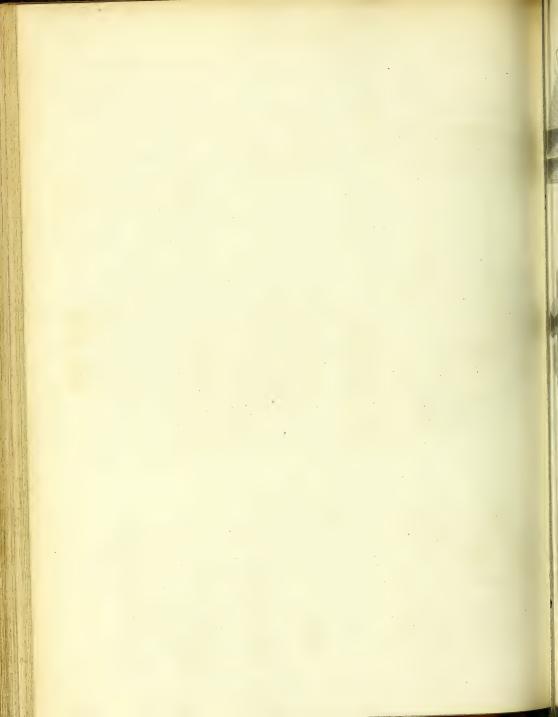


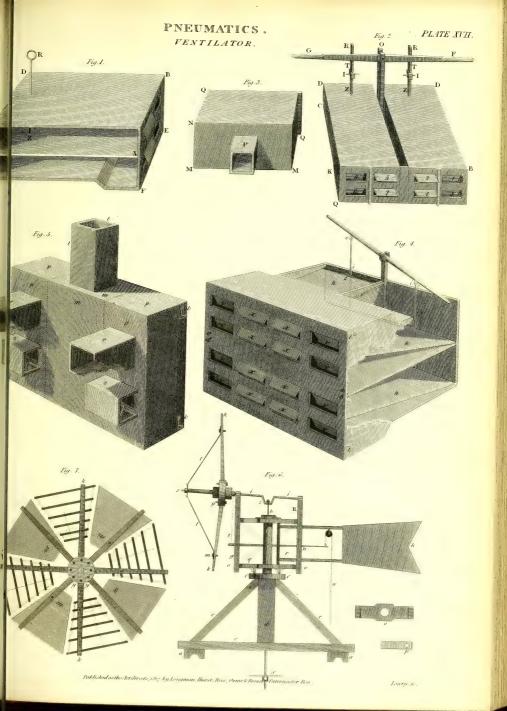


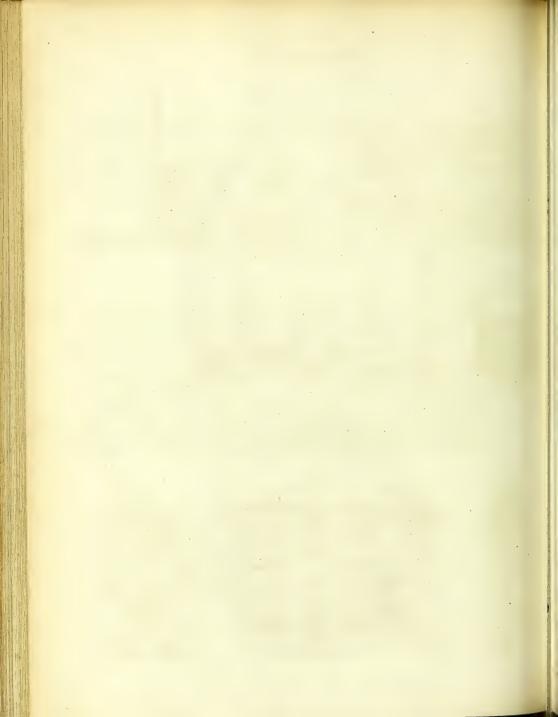


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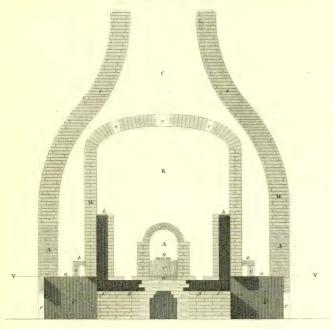




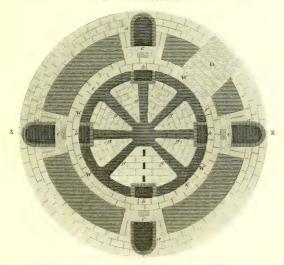


POTTERY

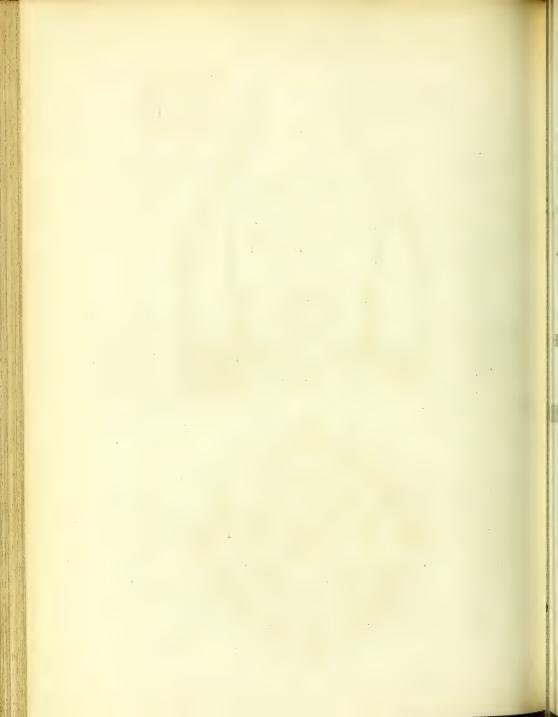
Vertical Section.



Horizontal Section



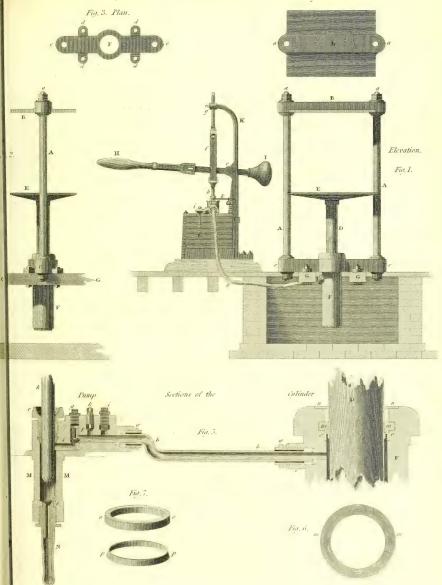
Published as the Act directs, 1825, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.



PRESS.

MEBRAMAII'S HYDROSTATIC PRESS.

Fig. 4. Plan.



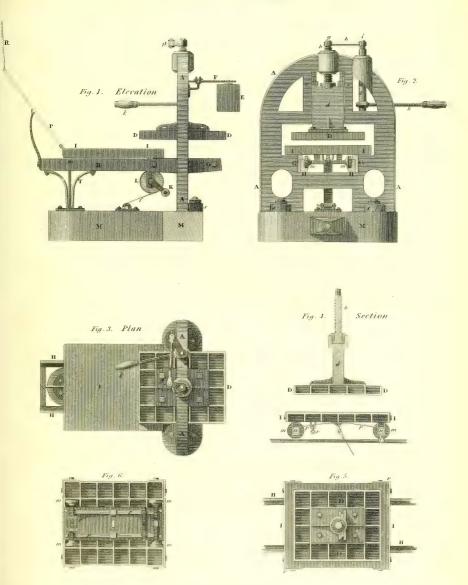


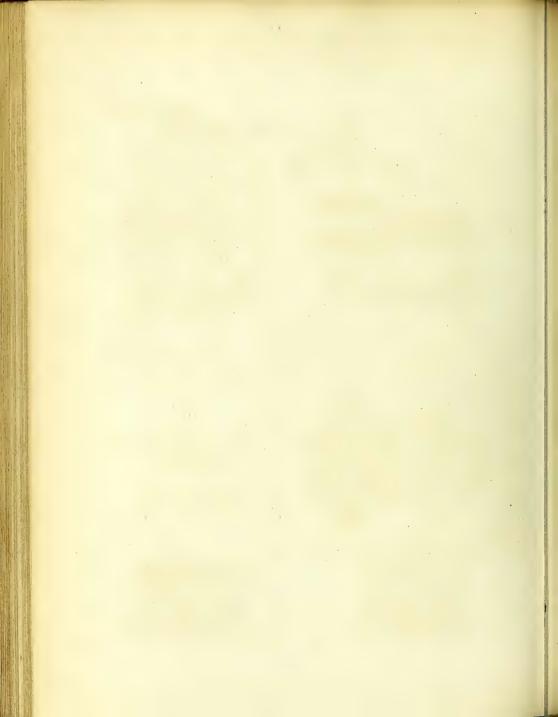
Published as the Act directs 1812, by Longman Burst Rese Orme & Brown Paternoster Row.

J. Farey delin.

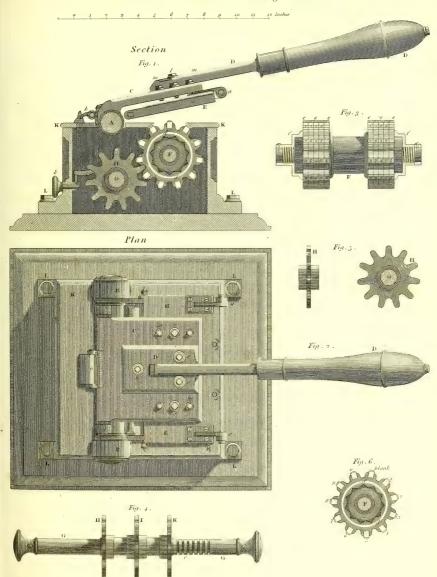


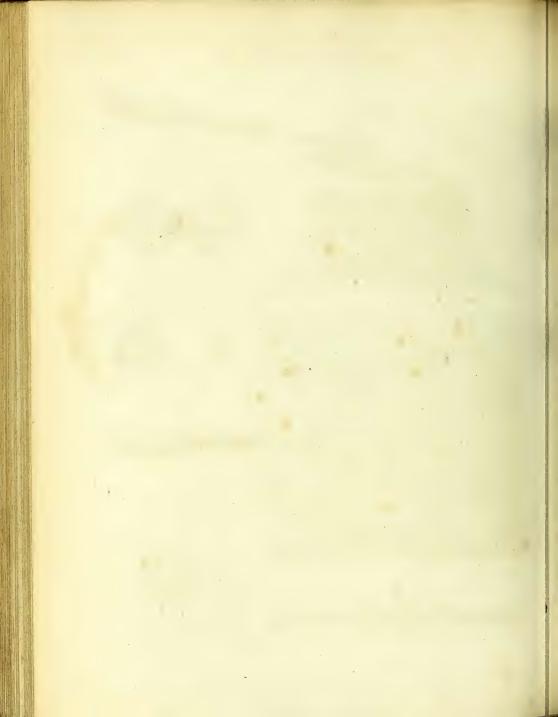
The STANHOPE or IRON PRESS.



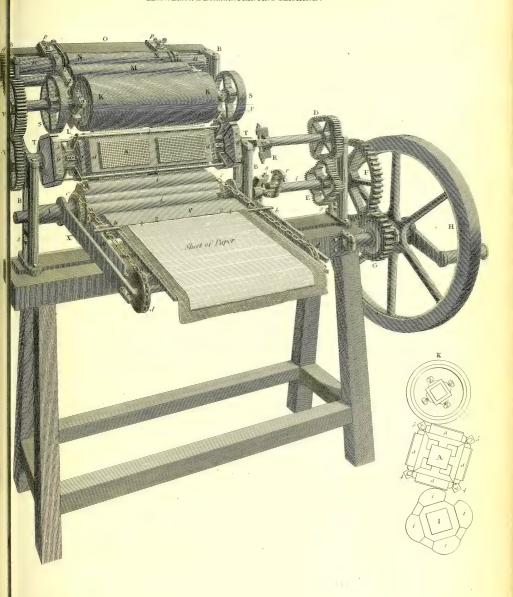


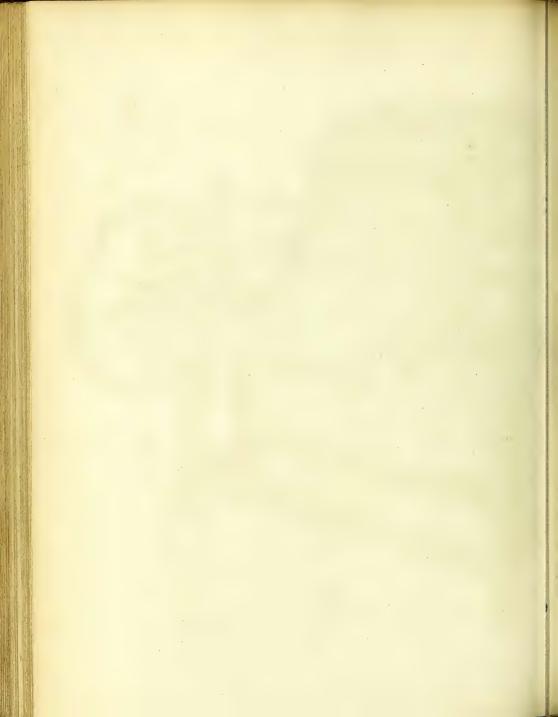
M. Bramah's Bank note Printing machine.

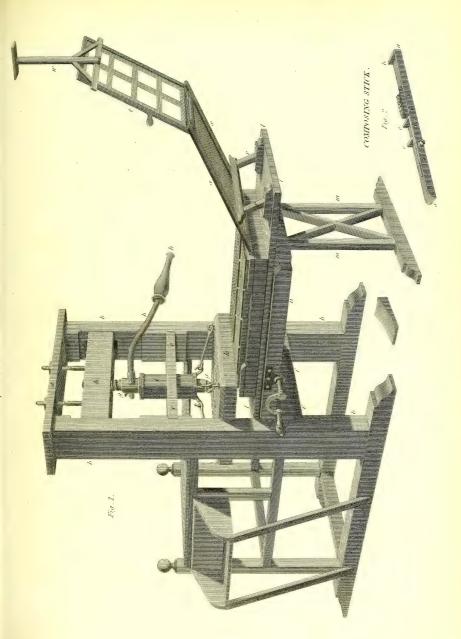




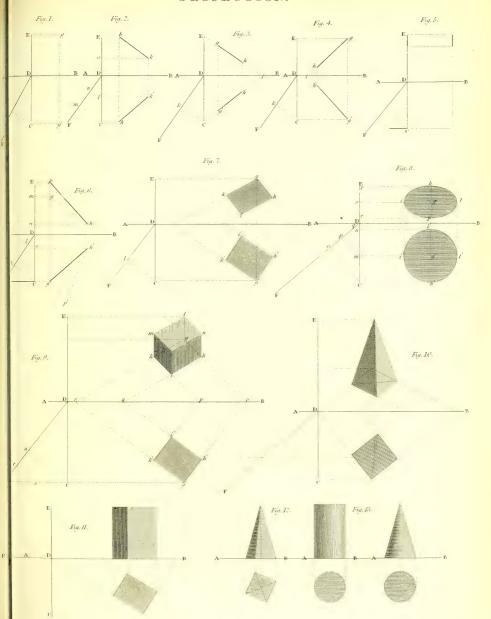
Mess "Bacon & Donkins, PRINTING MACHINE.

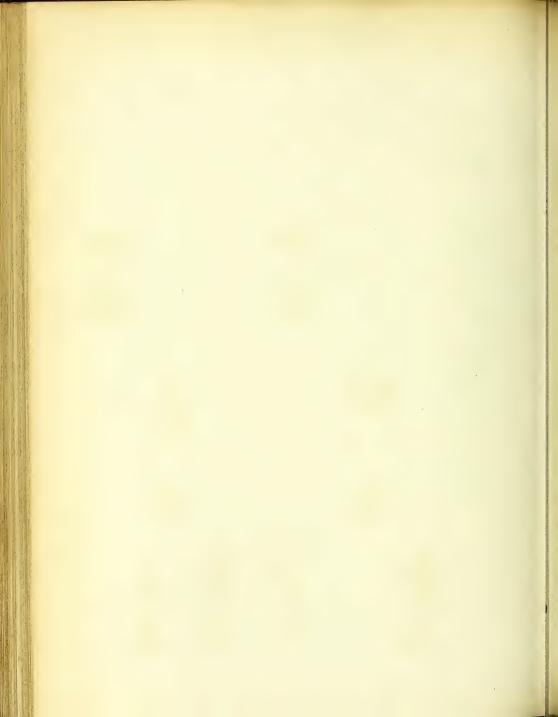


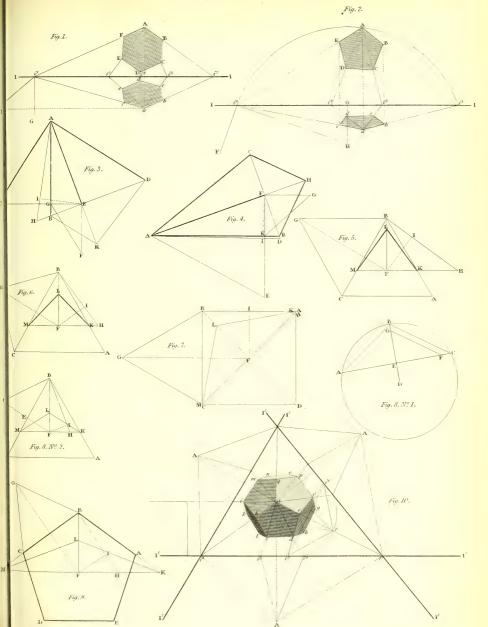


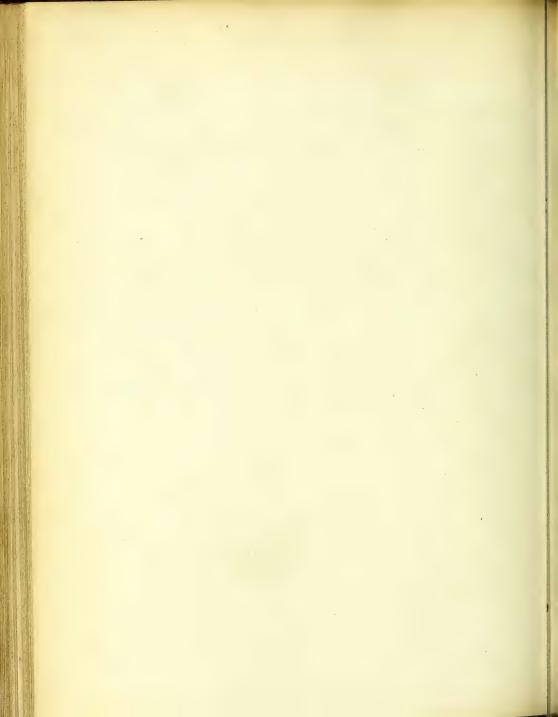


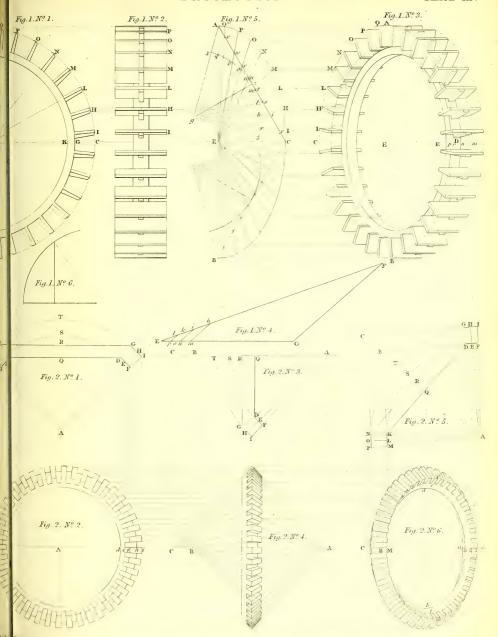






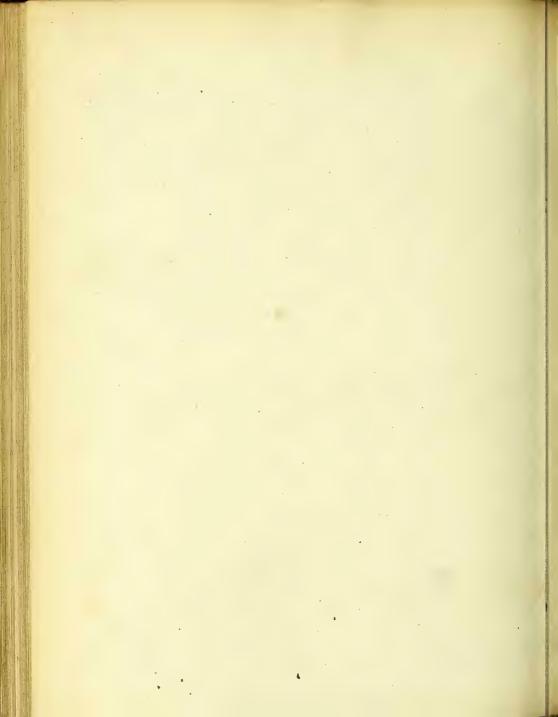


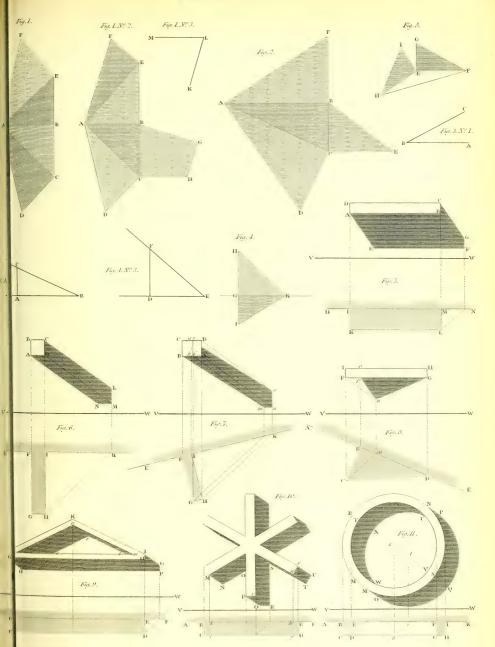


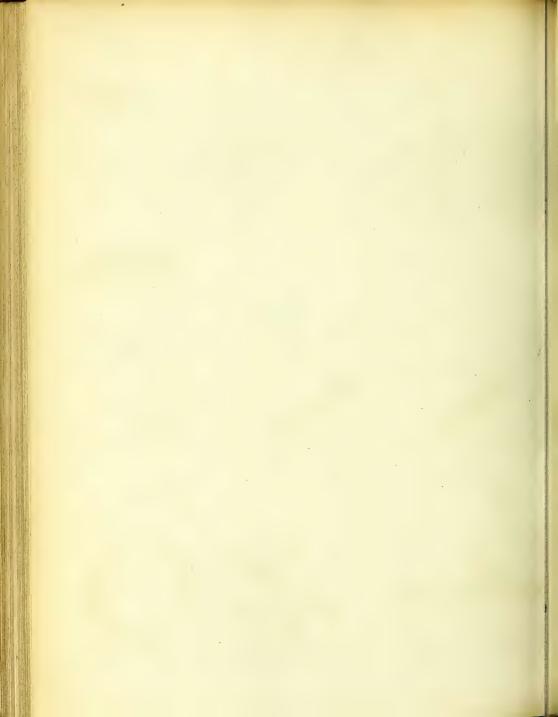


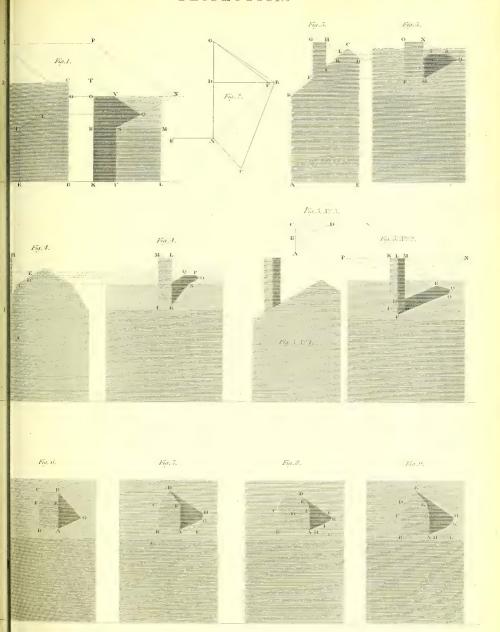
Published as the Act directs, 1813. by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

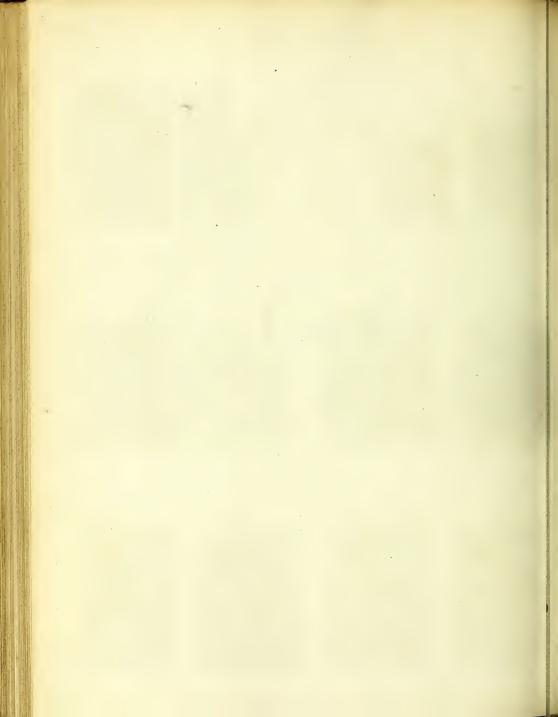
Engraved by W. Lowry.

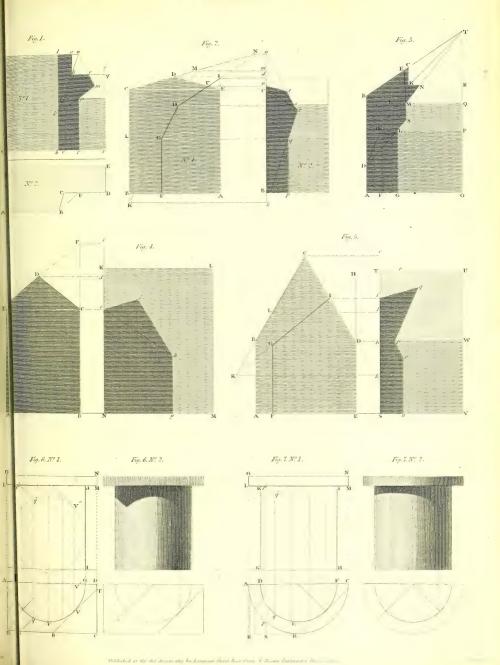


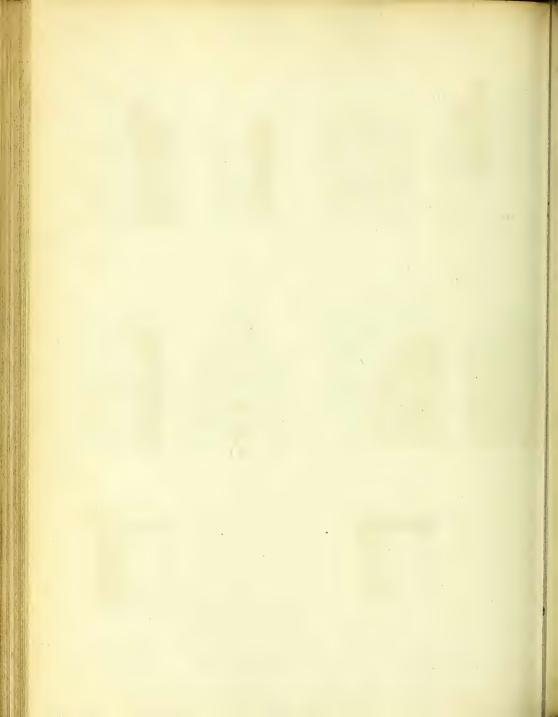


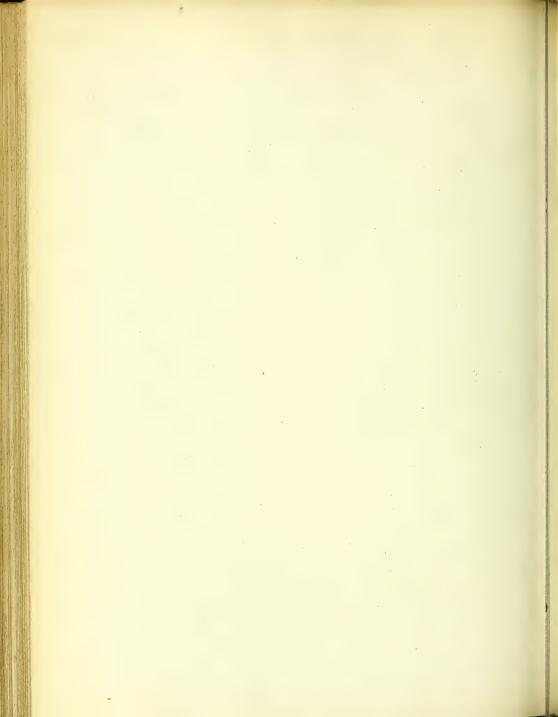


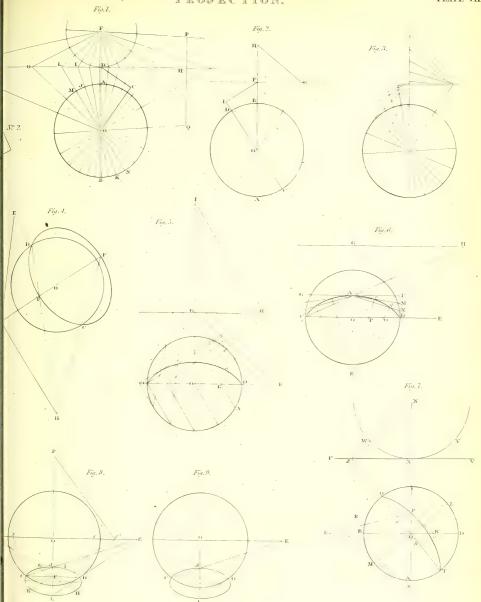






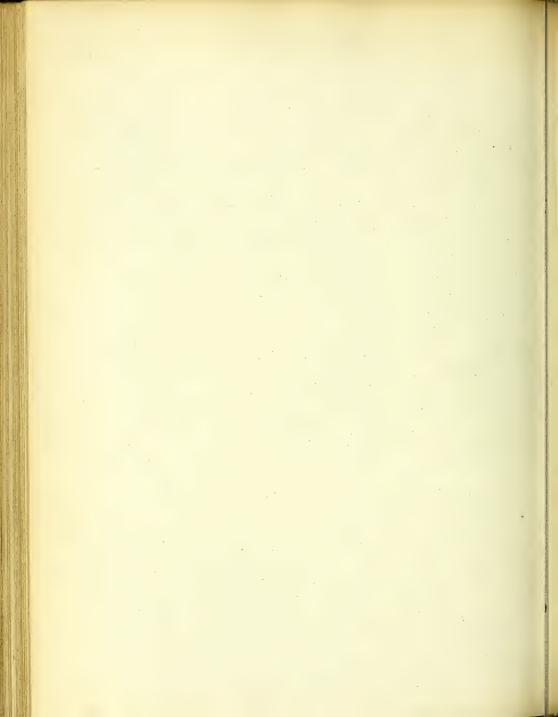


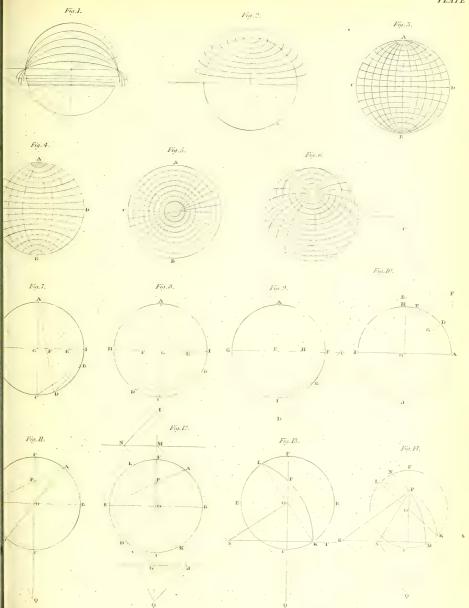


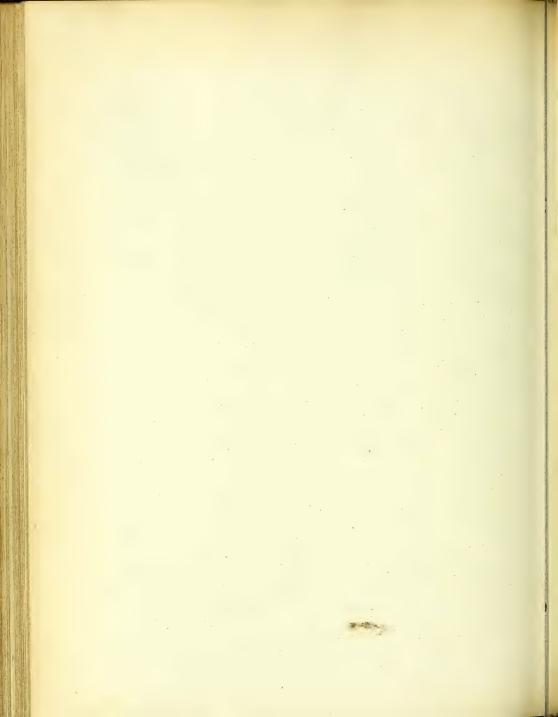


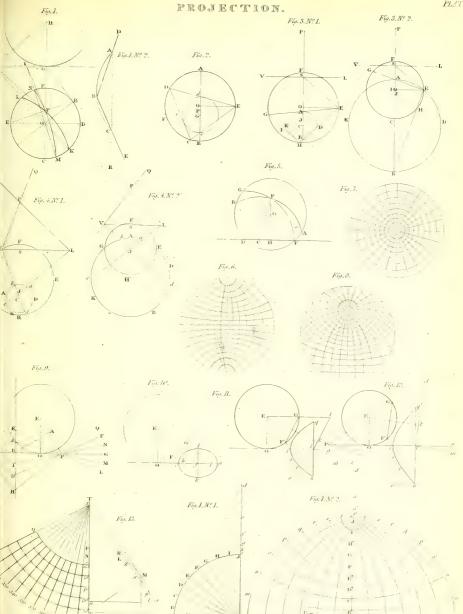
first applied to .

Published as the flet directs, 1811, by Longman, Hurst Rees, Orme & Brown, Paternoste, Row, London,

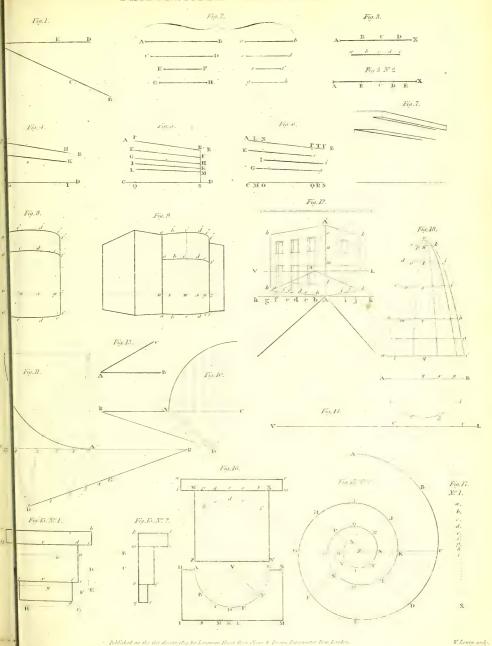


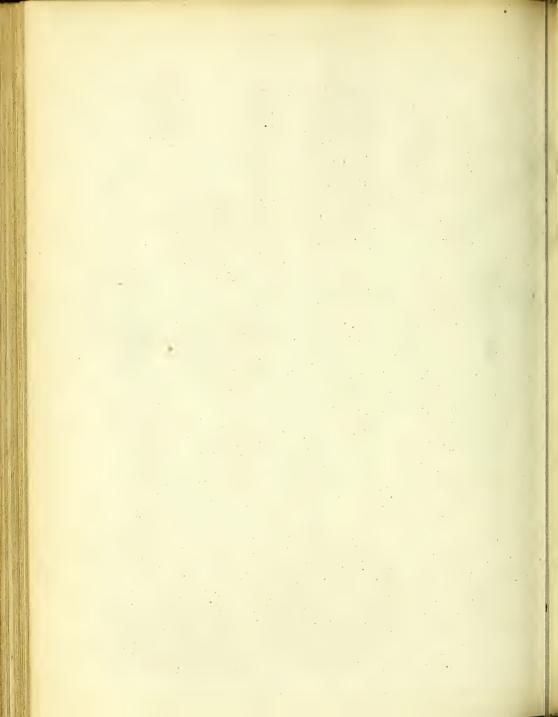




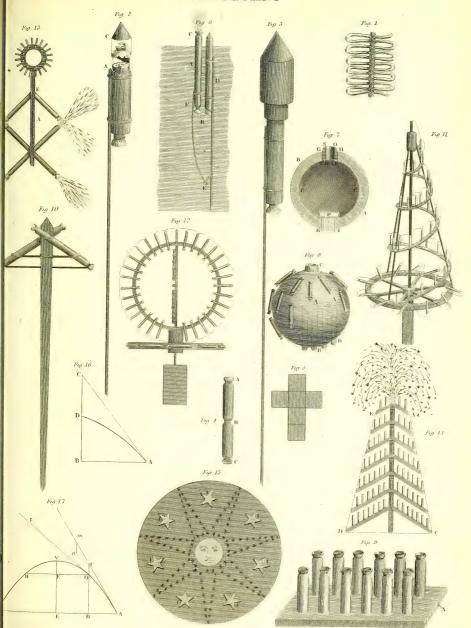


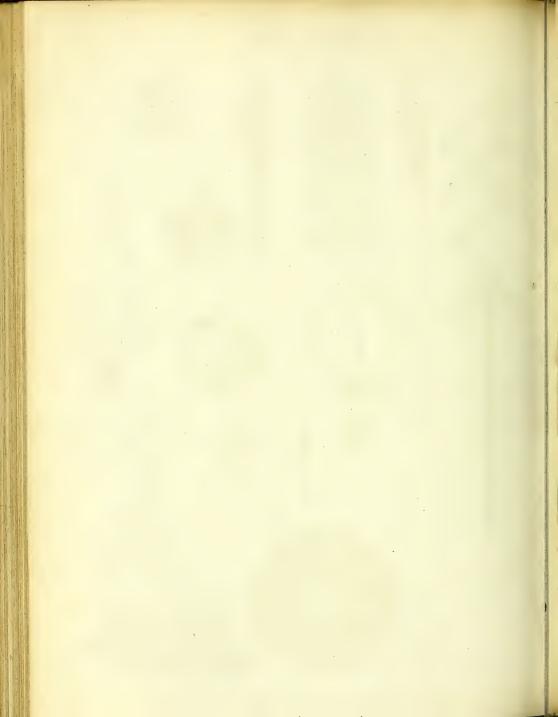
PROPORTIONAL COMPASSES.

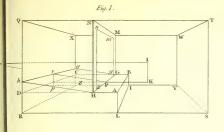


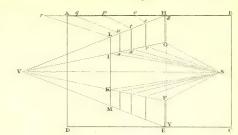


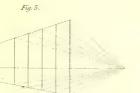
PYROTECHNY

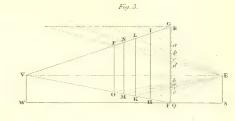






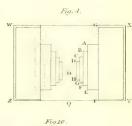


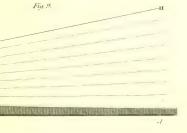


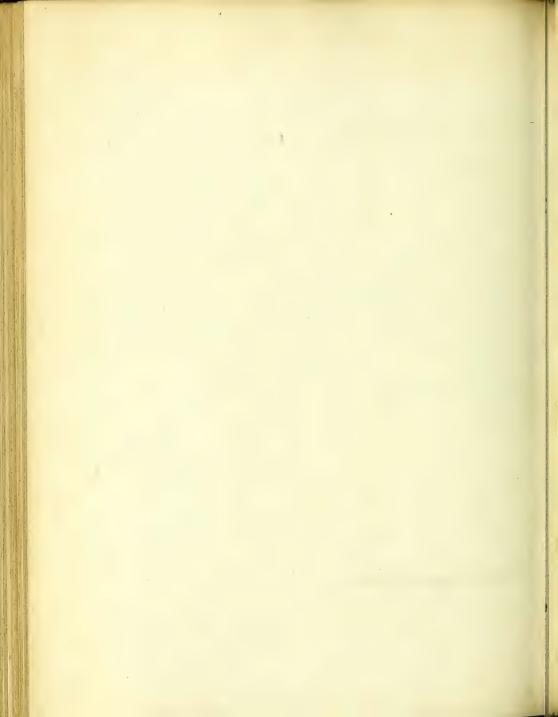








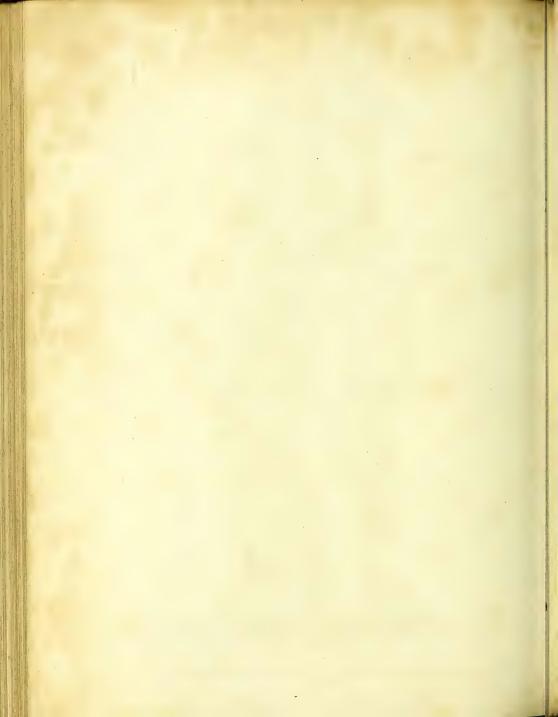


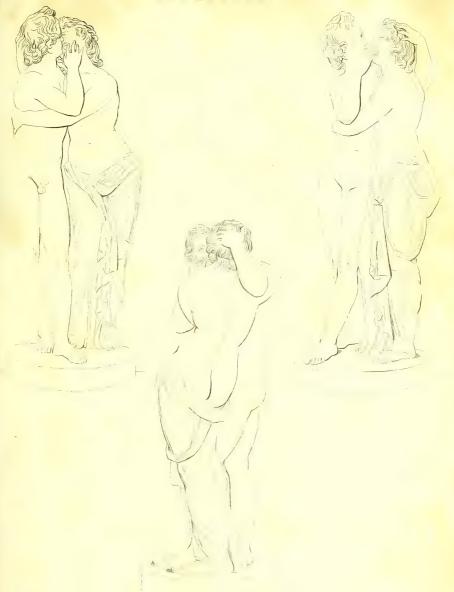




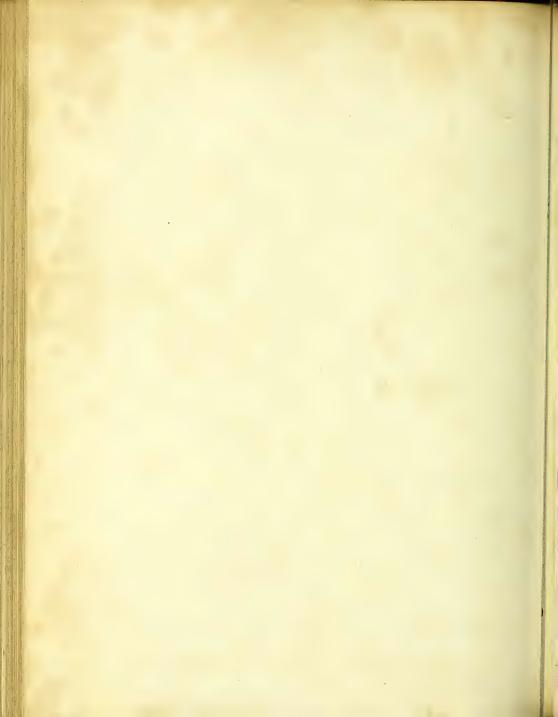
Drawn by H. Howard

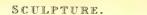
FROM AN ANTIQUE MARBLE GROUP OF CUPID & PSYCHE, IN THE CAPITOL.





THE GROUP OF CUPID & PSYCHE, SEEN IN DIFFERENT VIEWS.



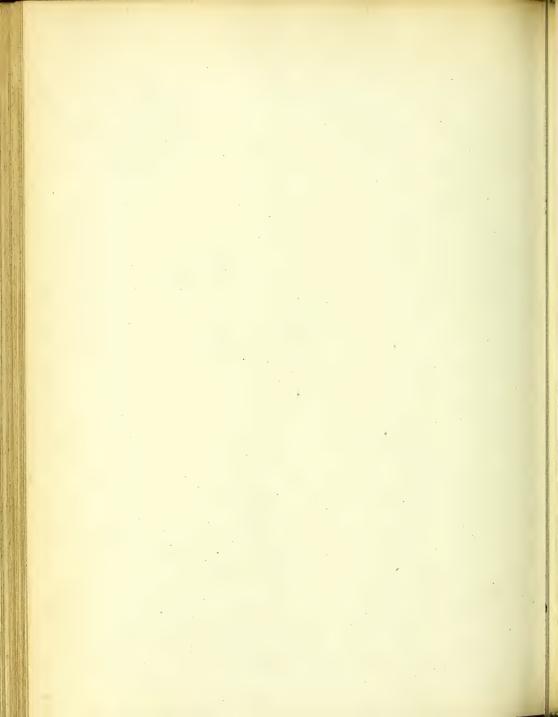




enus of Praxiteles, terriers Statues.

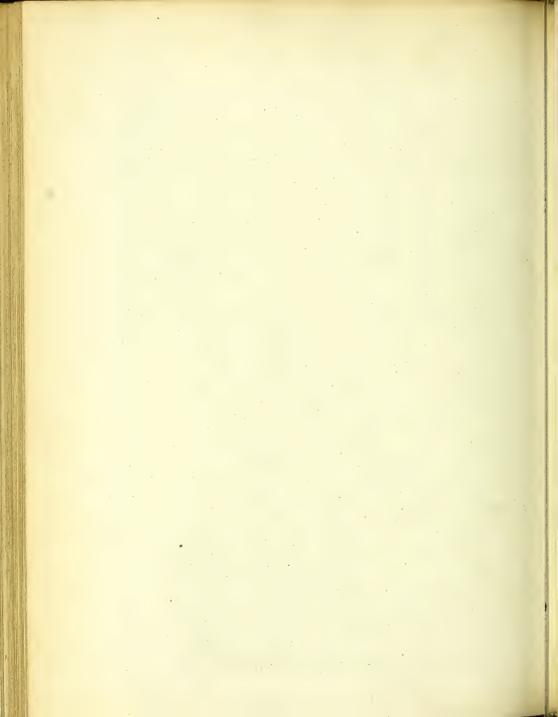
Statues, Coins & Gems.

Minerra of the Accopalis in Athens See Hunters Coins.





Published as the Act directs, Jun. 1,18,6, by Longman, Hurst Rees, Orne & Brown, Paternoster Ron.





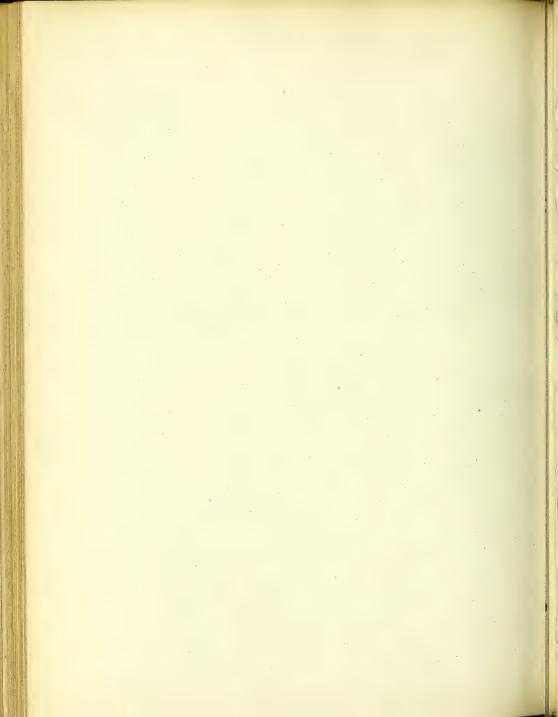


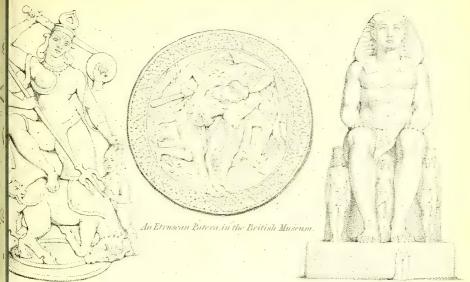
Venus de Medicis





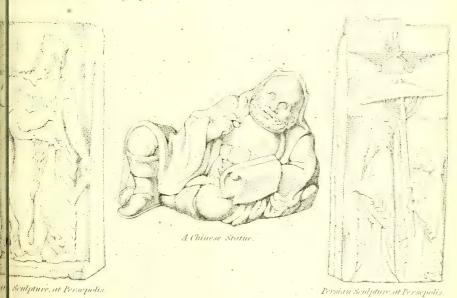
Published as the Act directs. Oct. La815. by Longman Hurst, Rees, Orme & Brown, Paternoster Row.

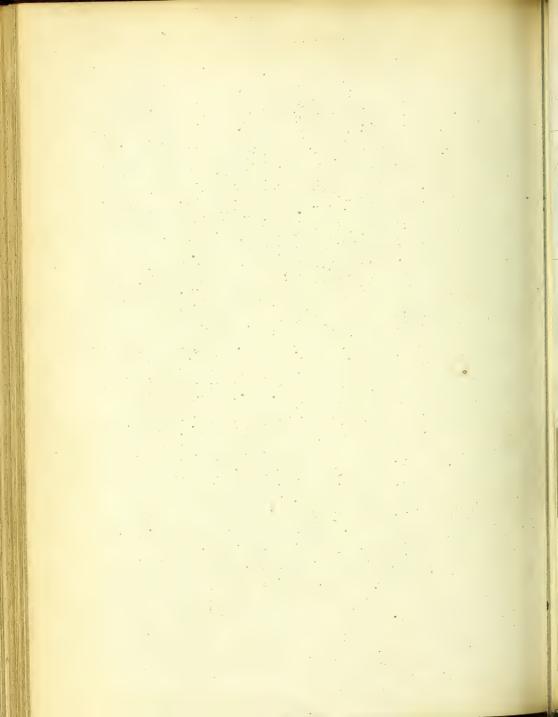


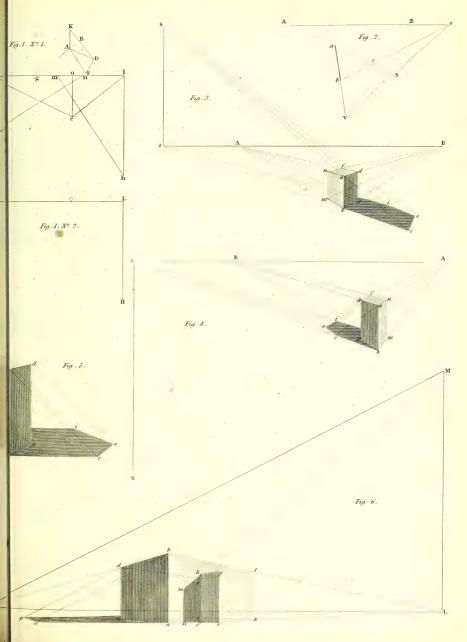


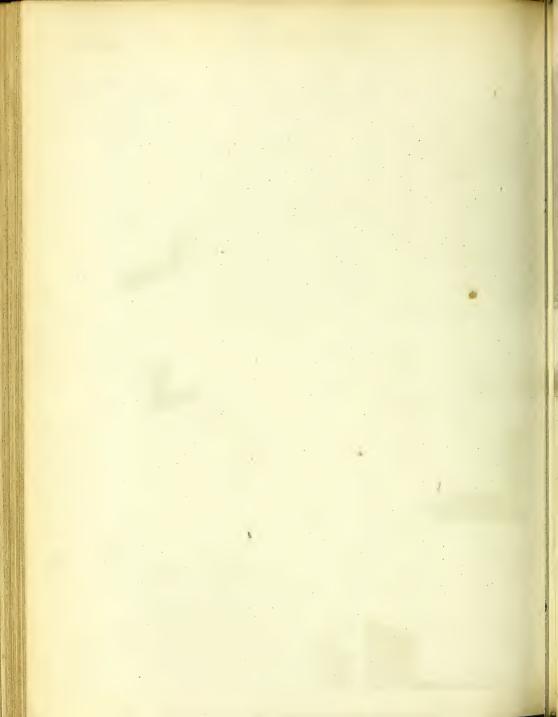
g <mark>Javing Mahishasura, a Héndoo grou</mark>p.

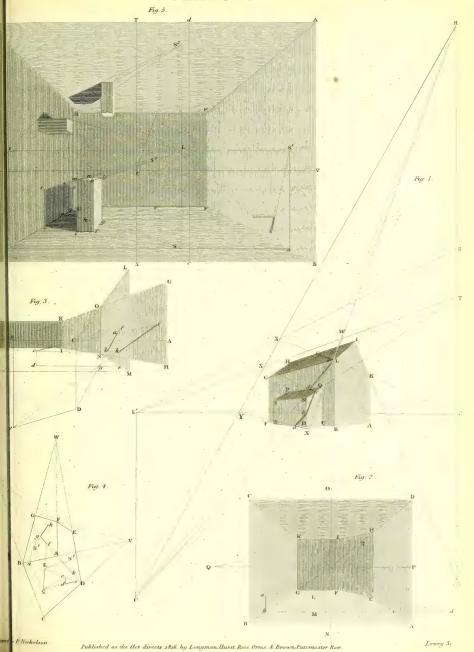
A Colossal Statue, at Thebes.

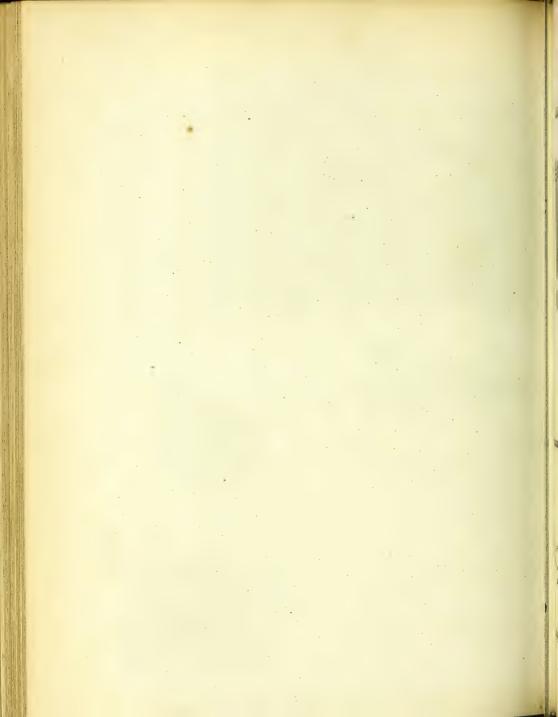




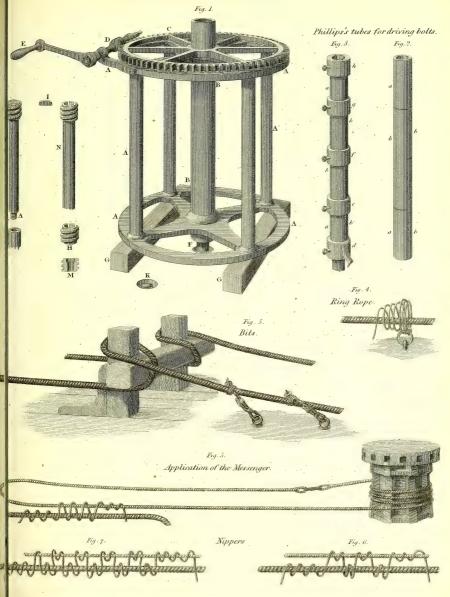


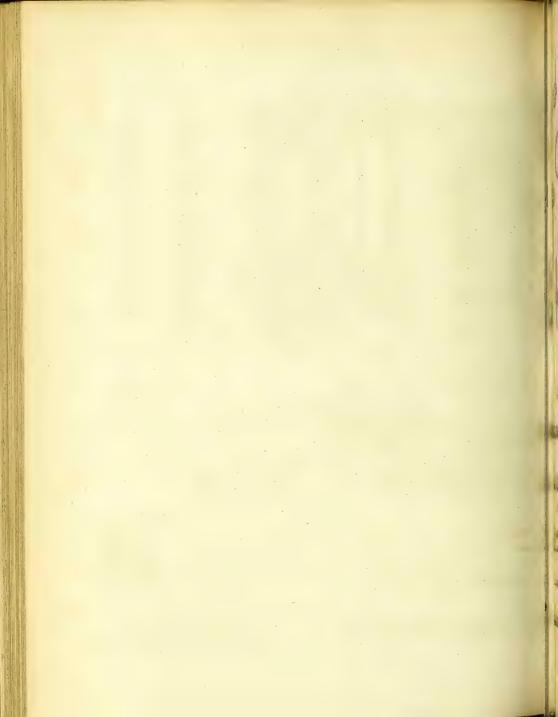


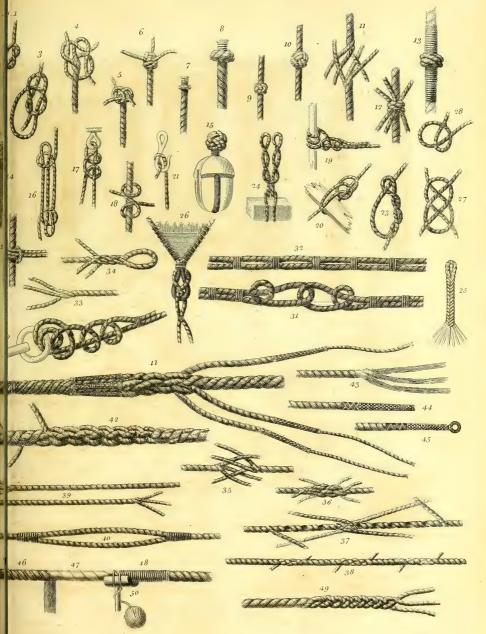




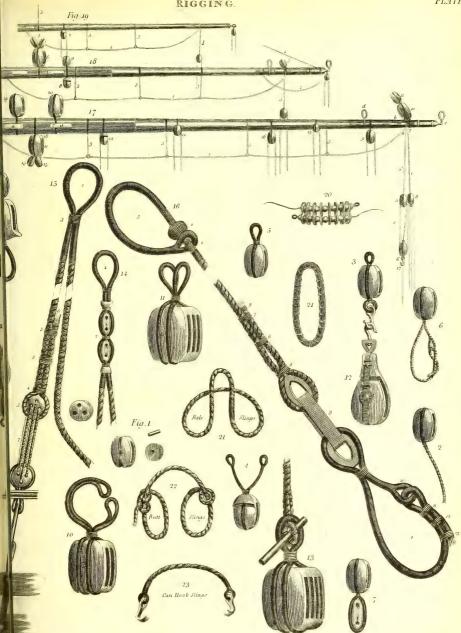
Capt. Bolton's machine for drawing Bolts.

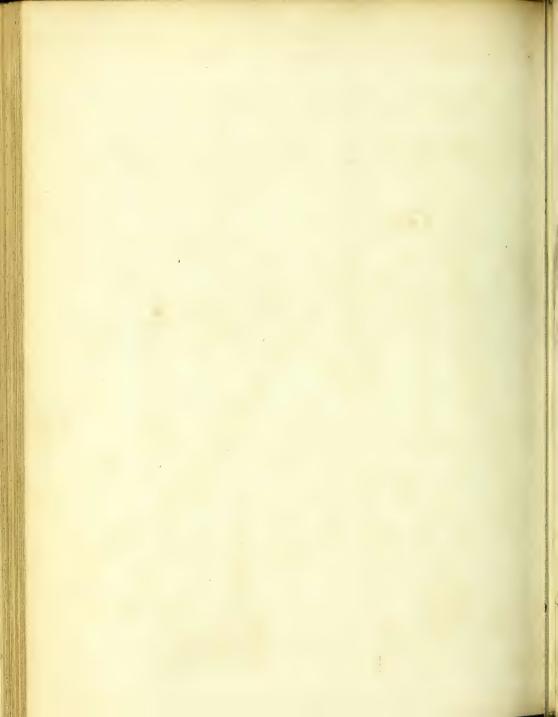


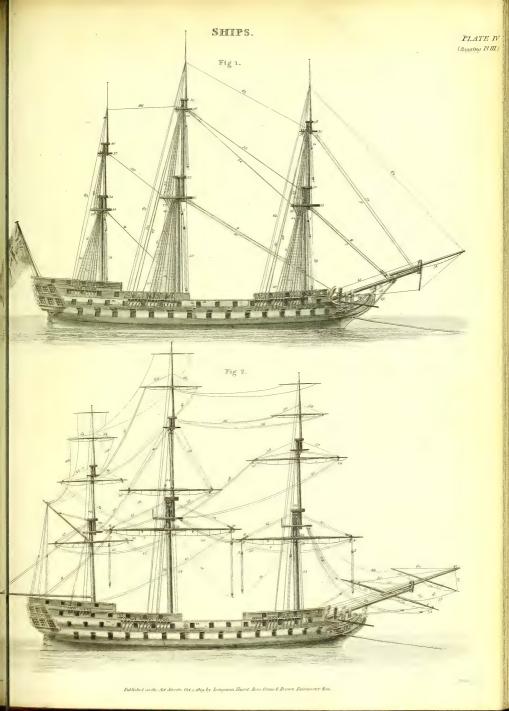


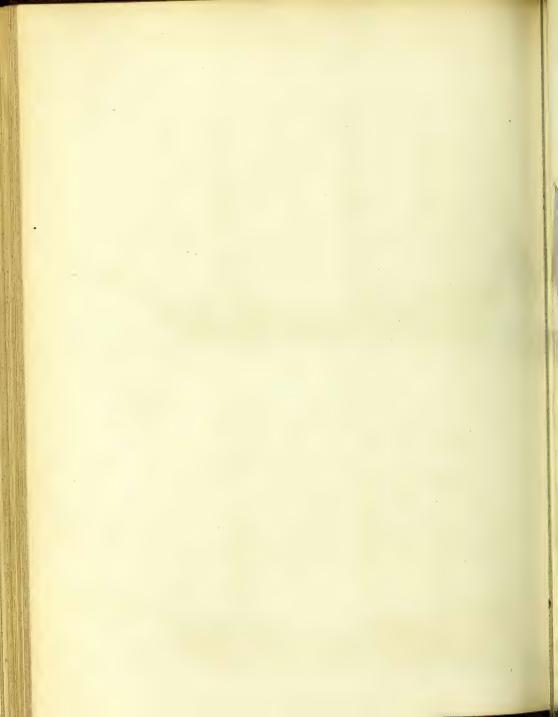


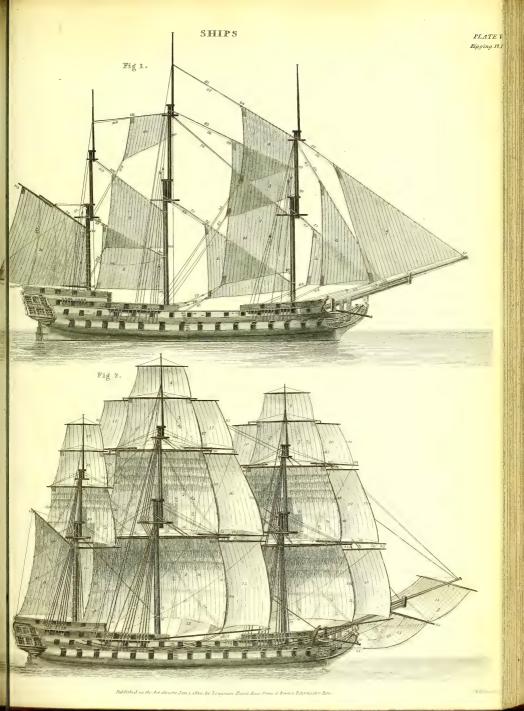


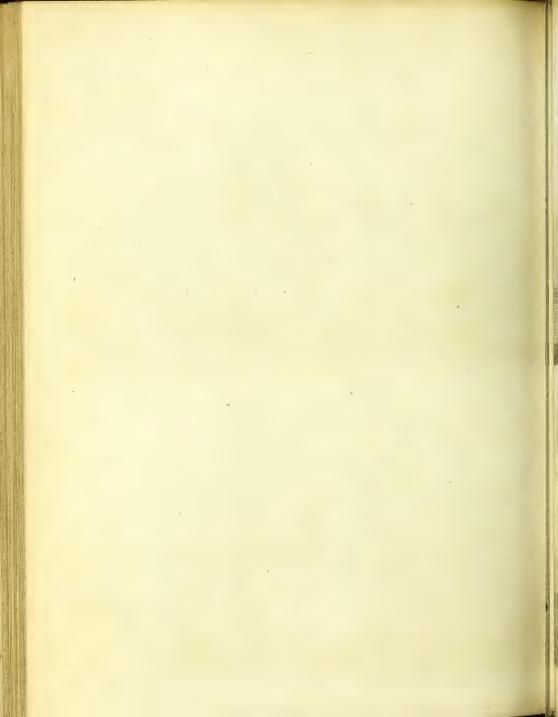




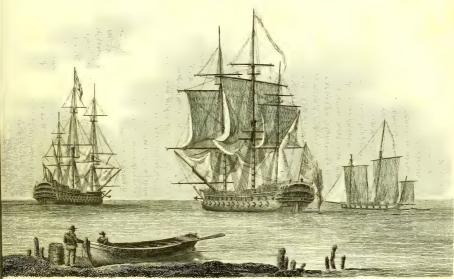








British Men of War.

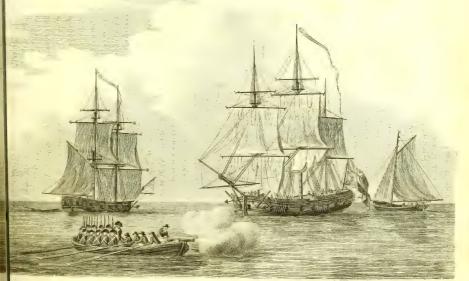


First Rate

Man of War's Barge

Seventy four.

Lugger.

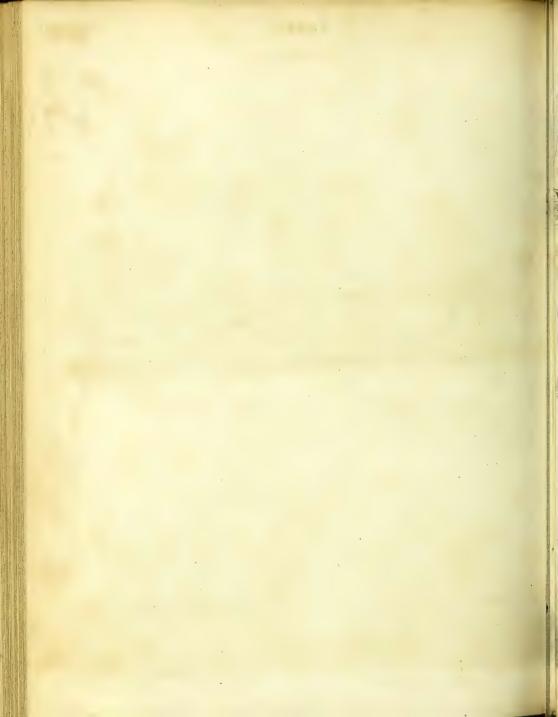


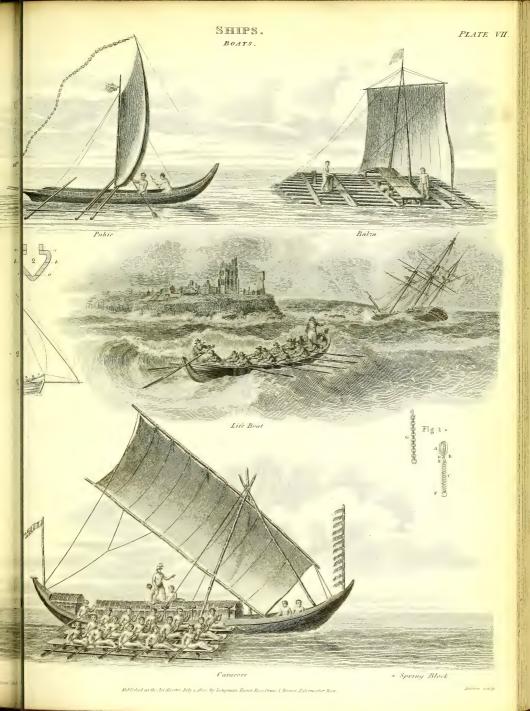
Fire Brig.

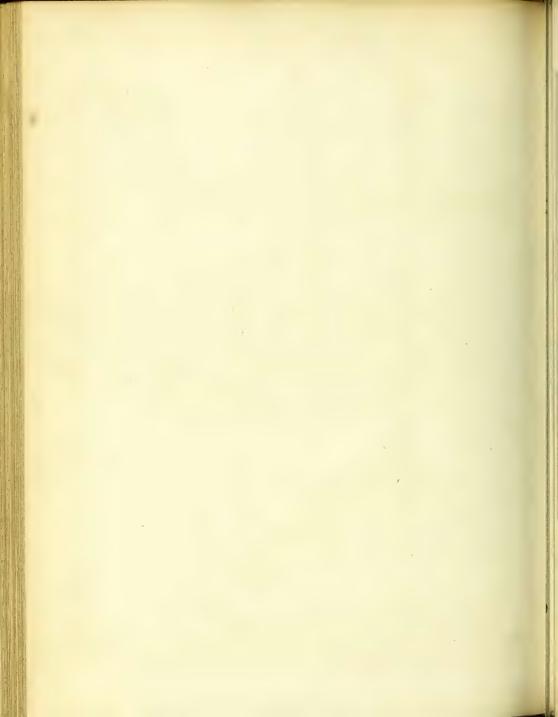
Flat Bottomed Boat

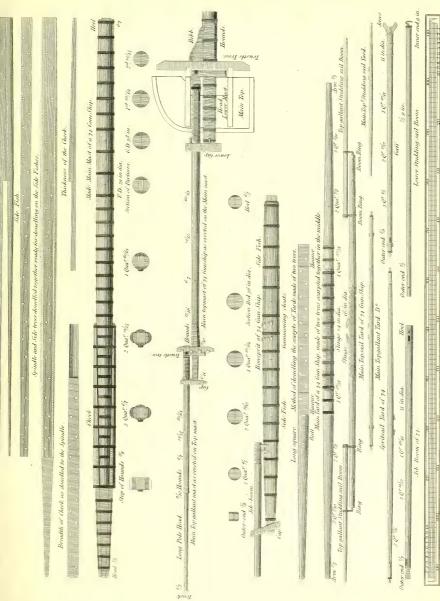
Gun Vefsel / the Wolverine .)

Man of War's Long Boat.

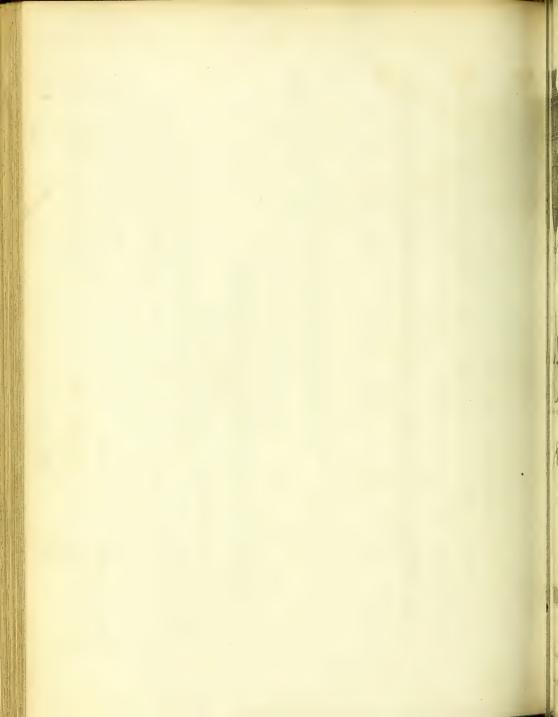


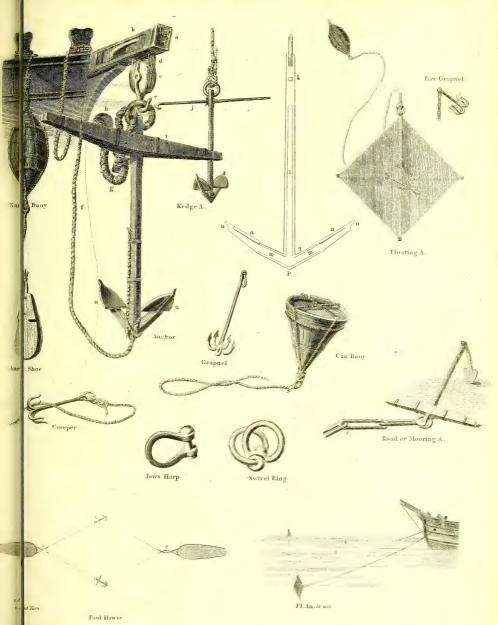




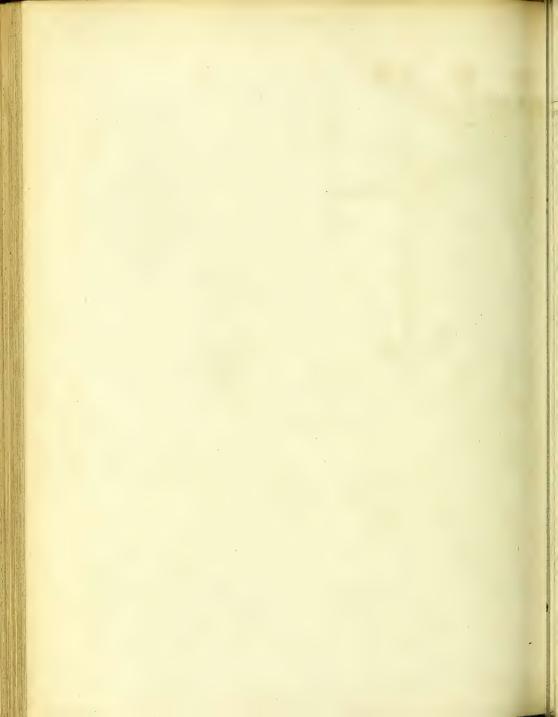


Scale





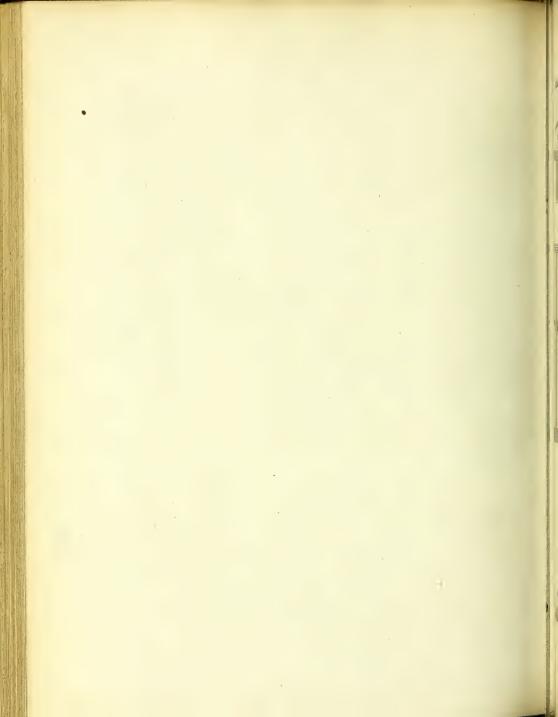
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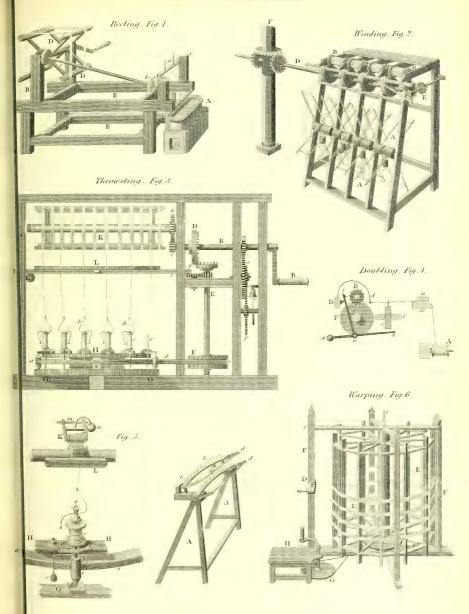
SHORT HAND.

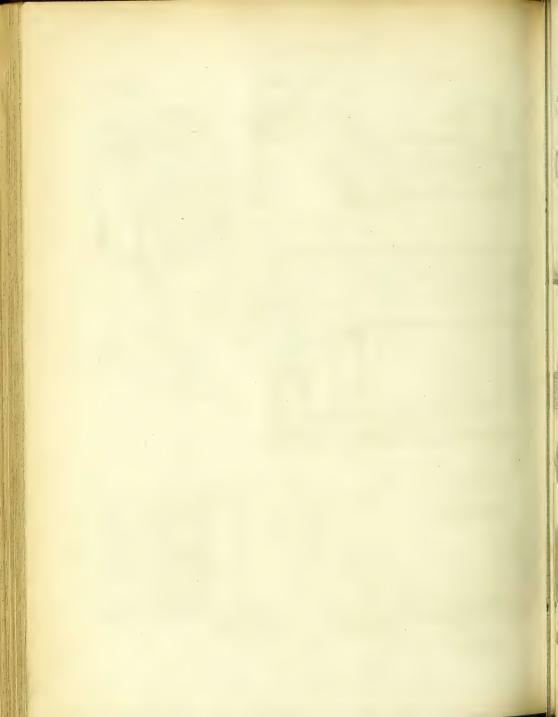
The Alphabets Invented by John Byrom, M.A.and F.R.S.

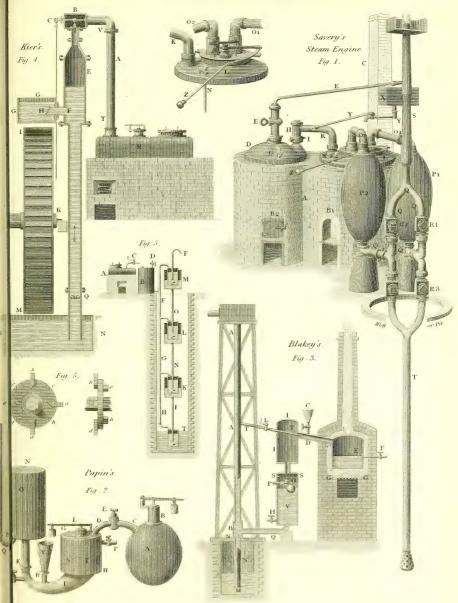
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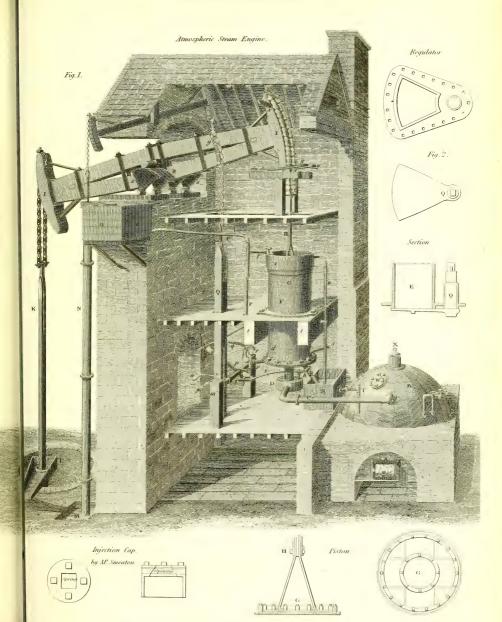
SILK MANUFACTURE

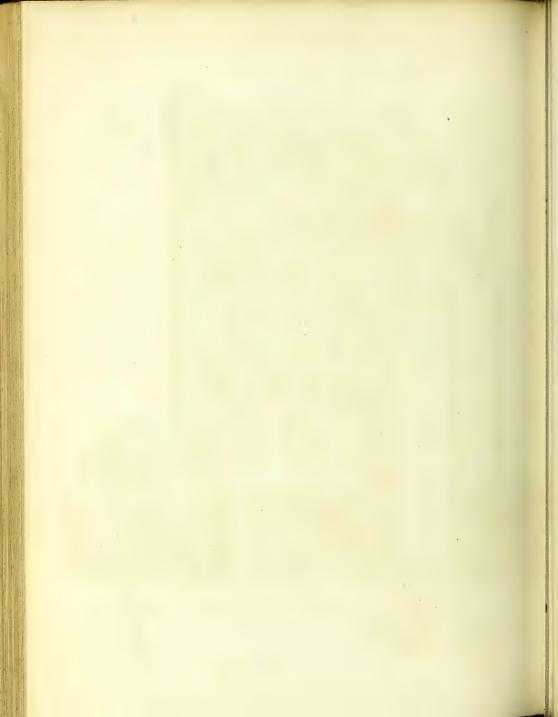




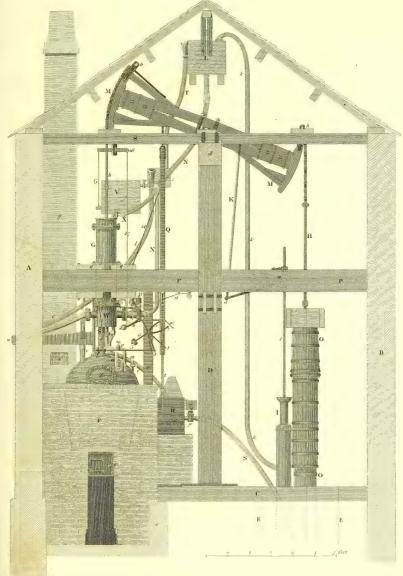


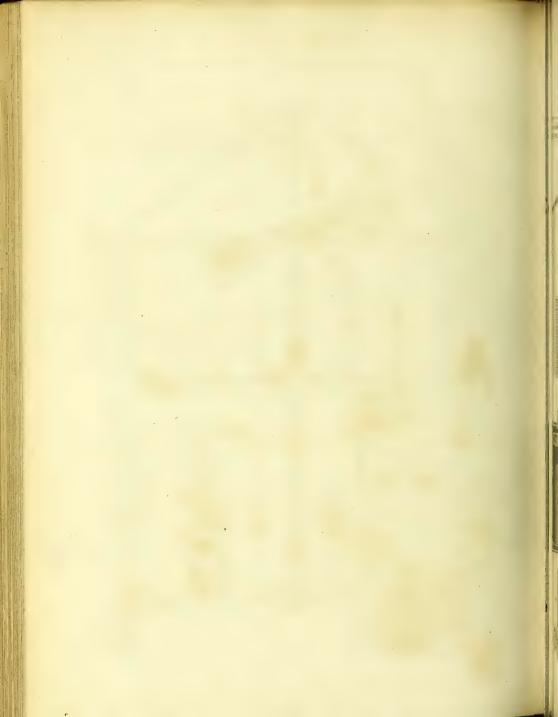




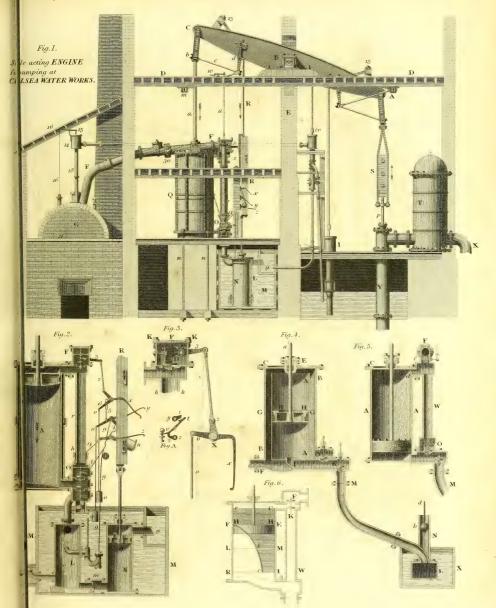


On the principle of NEWCOMEN, as constructed by SMEATON.

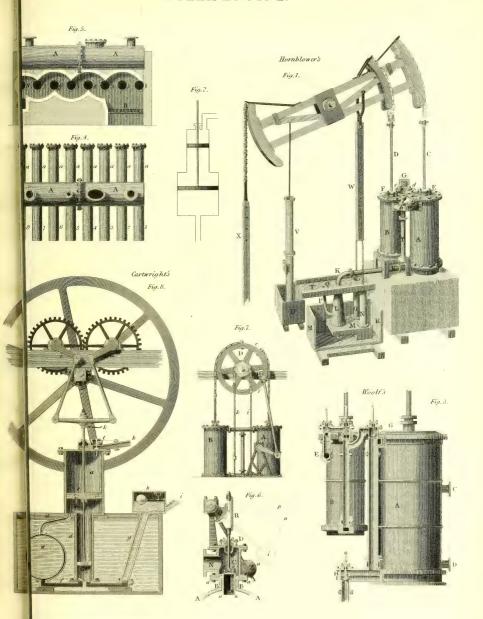


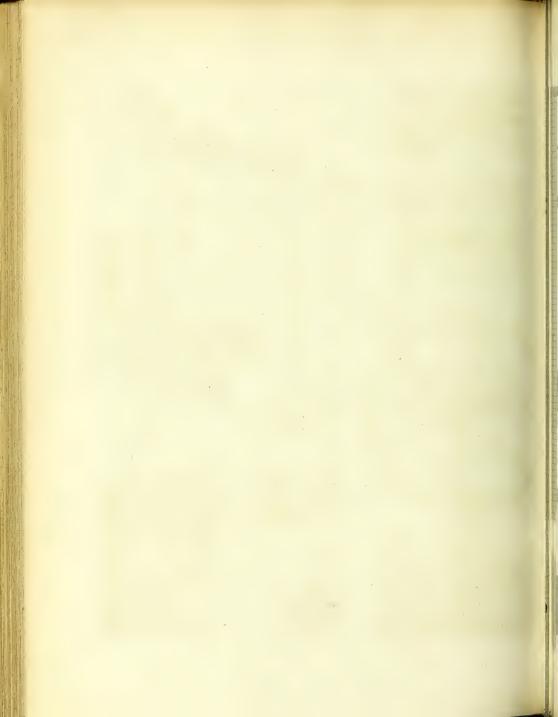


M. WATT'S ENGINE.



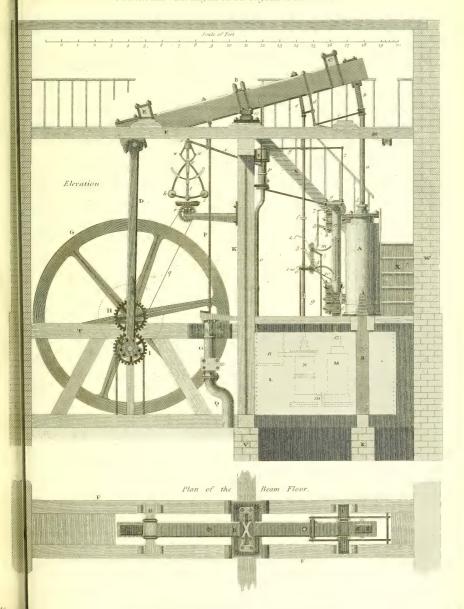


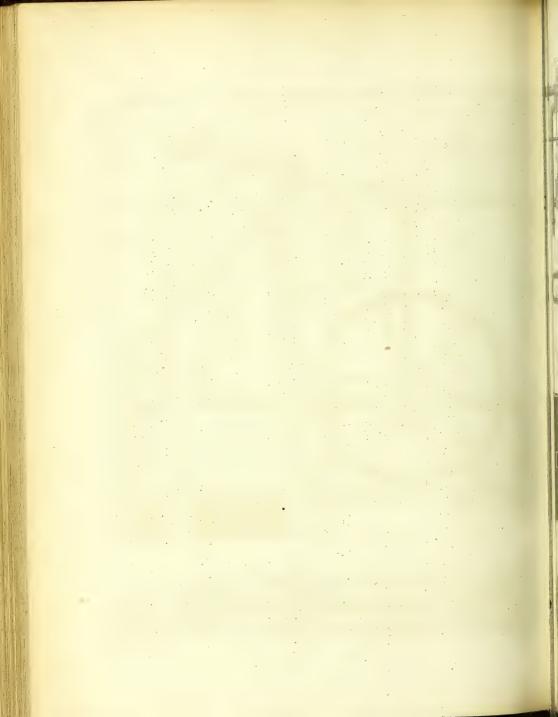




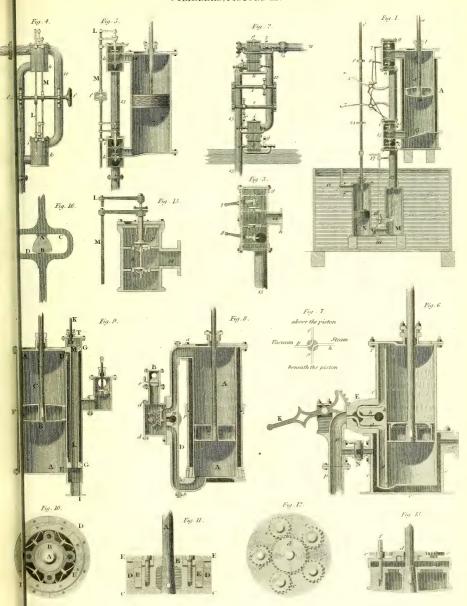
STEAM ENGINE.

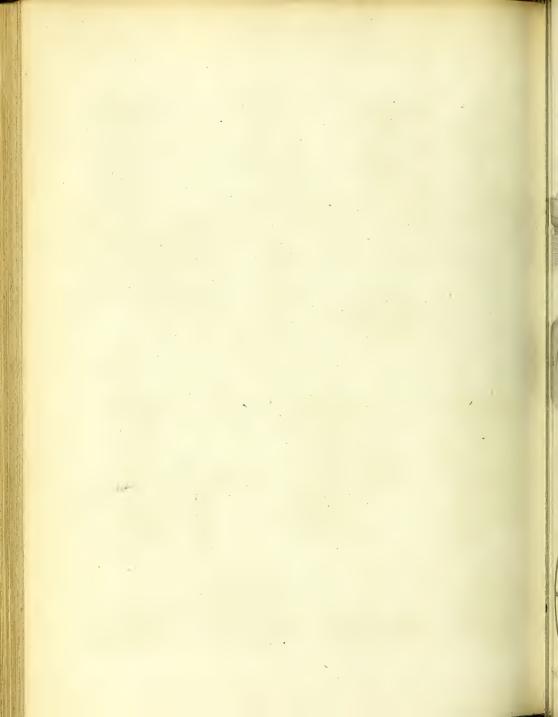
Boulton and Watt's Engine on the original Construction.

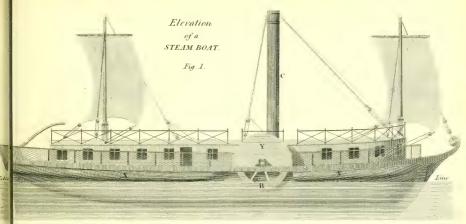




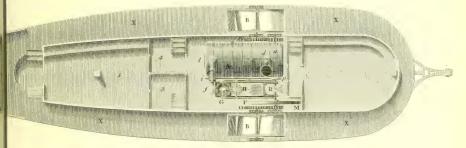
CYLINDERS, PISTONS &c.

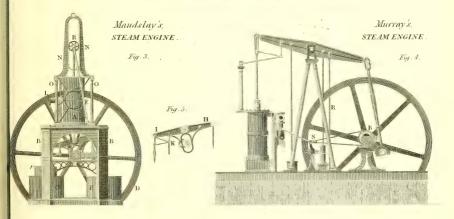


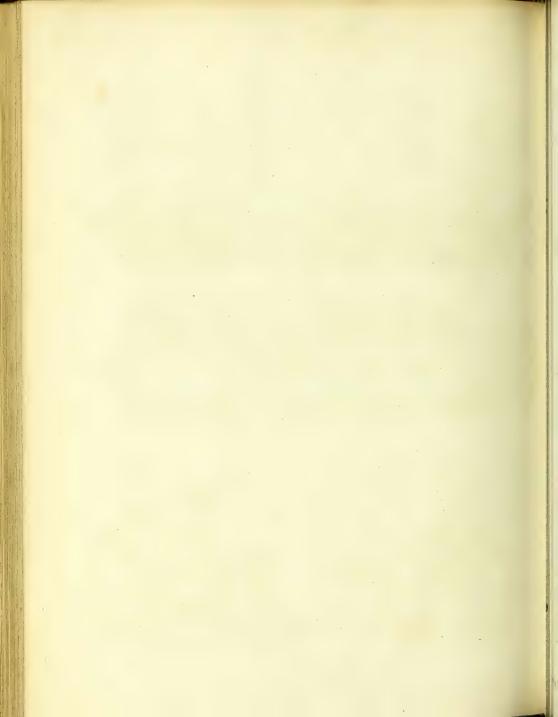




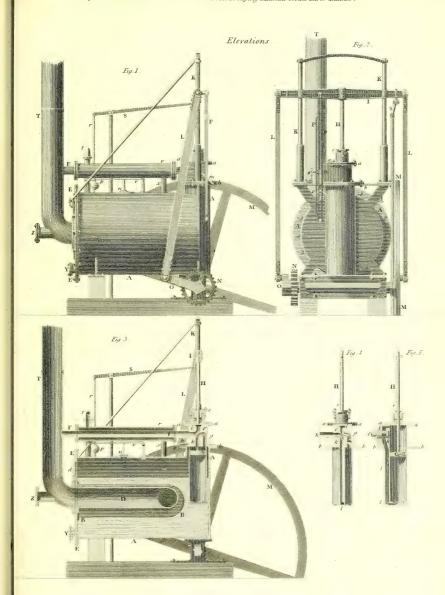
Plan . Fig 2.

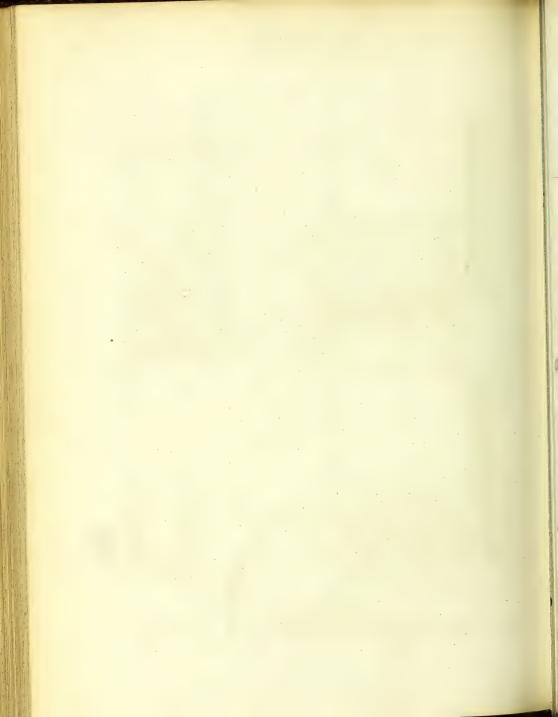




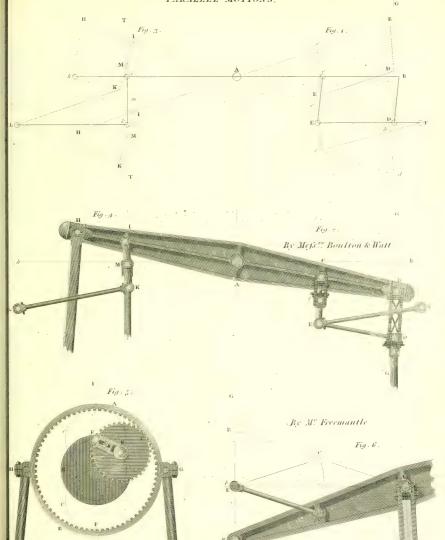


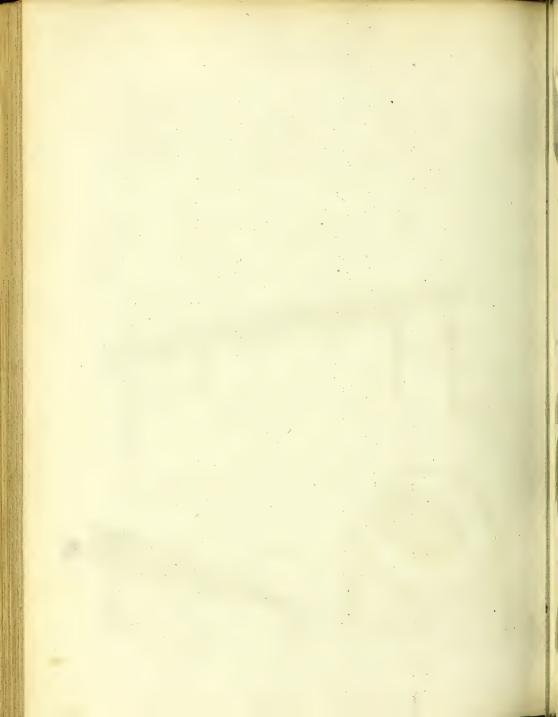
High Pressure STEAM ENGINE used with the Dredging Machine on the River Thames.

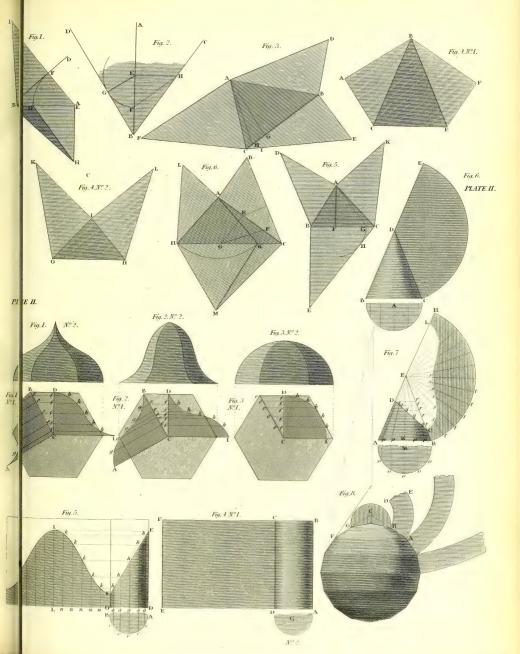


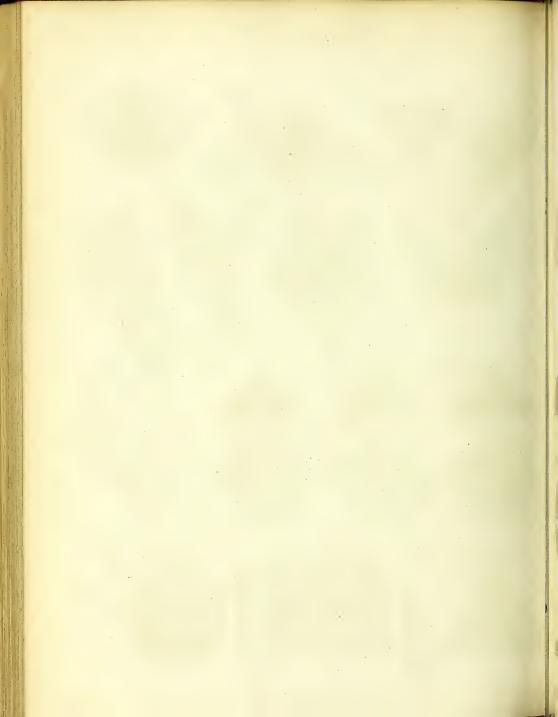


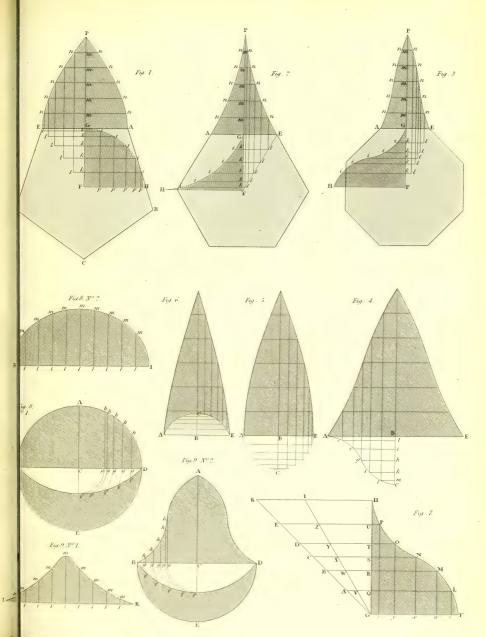
STEAM ENGINE. PARALLEL MOTIONS.

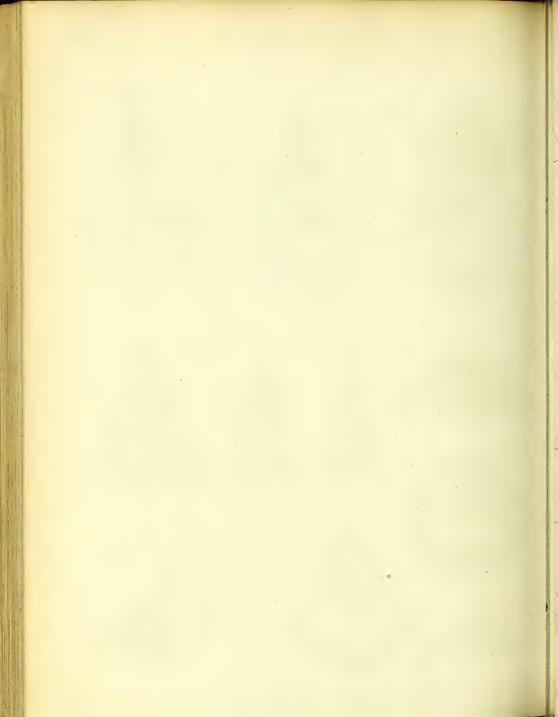


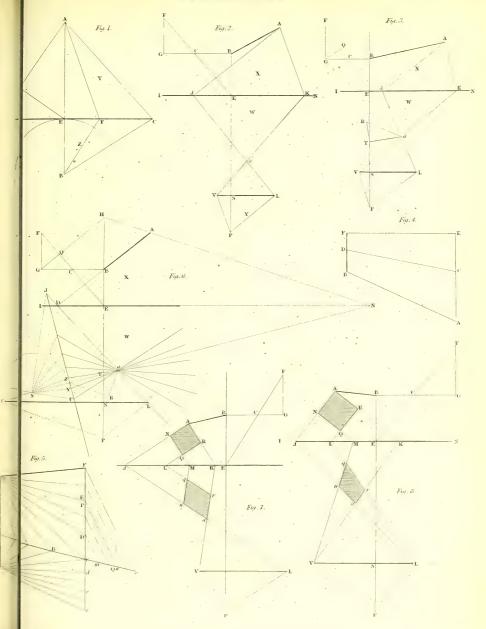


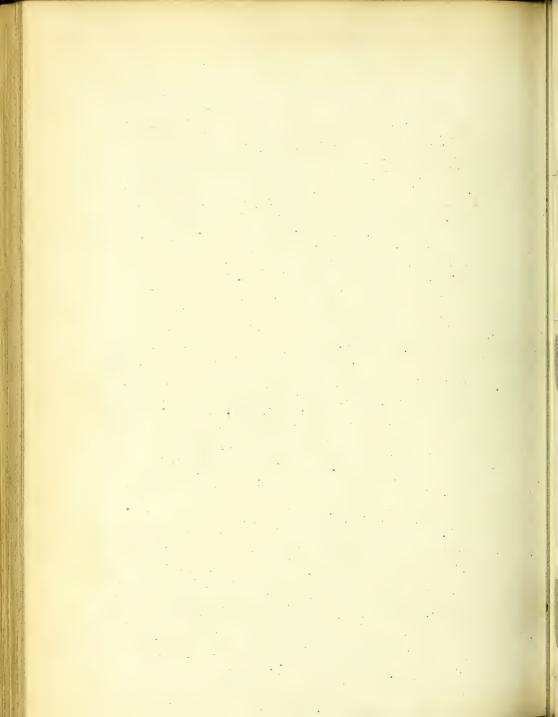


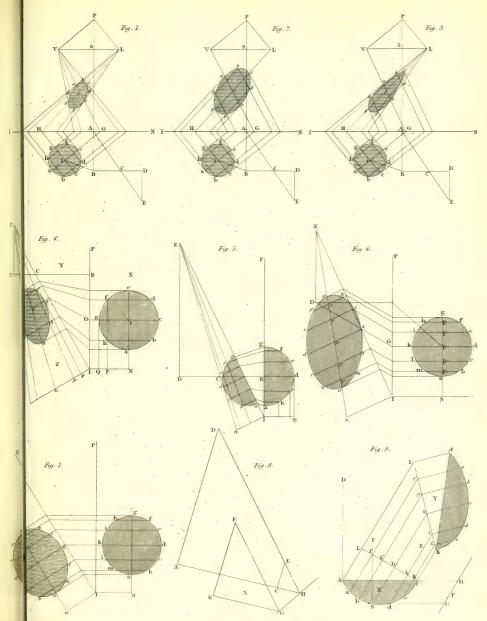


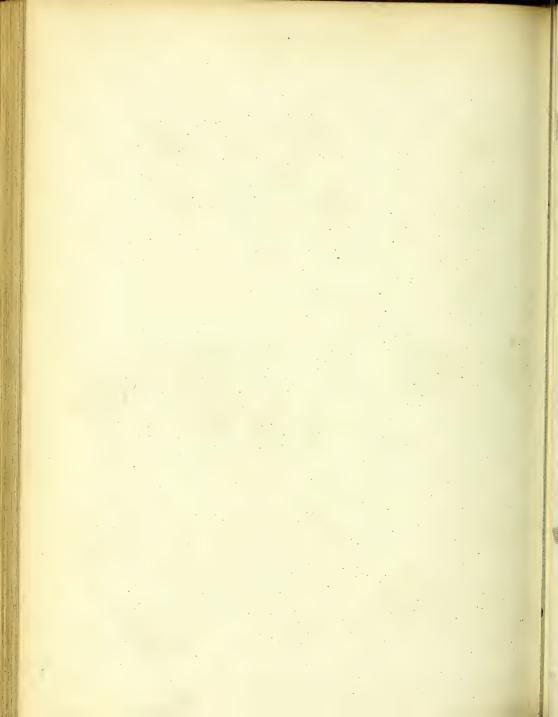




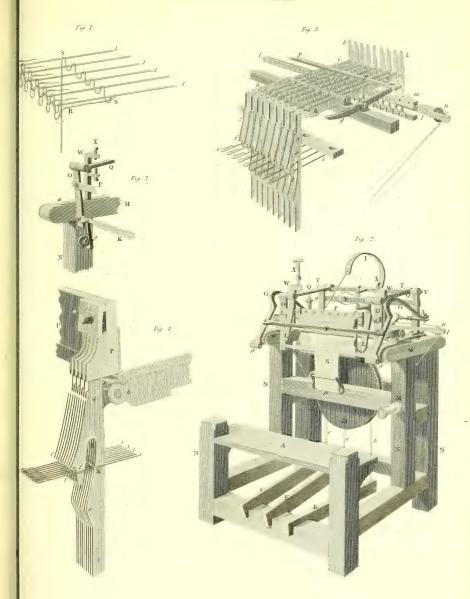


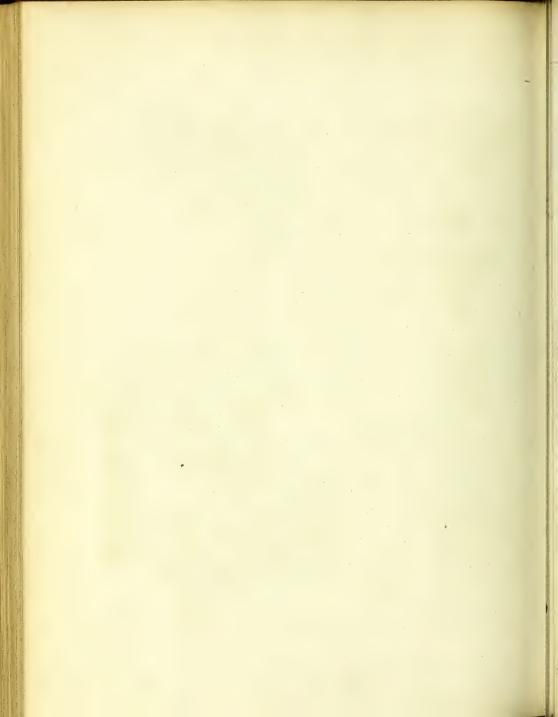


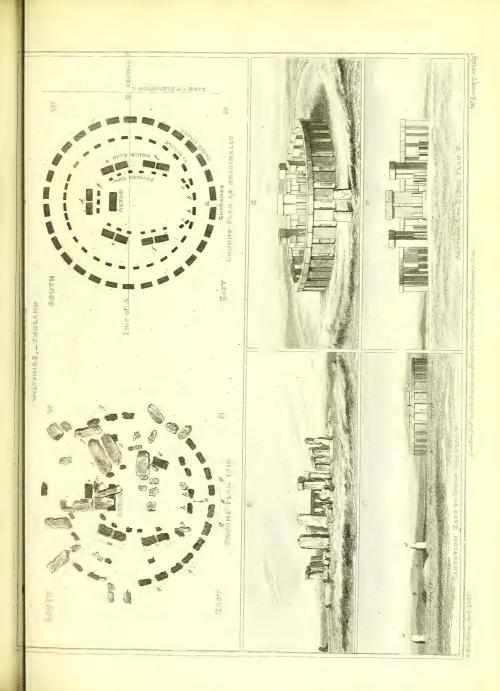


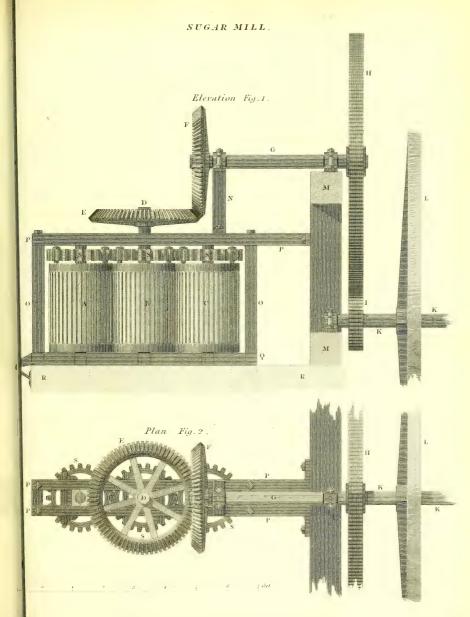


STOCKING FRAME



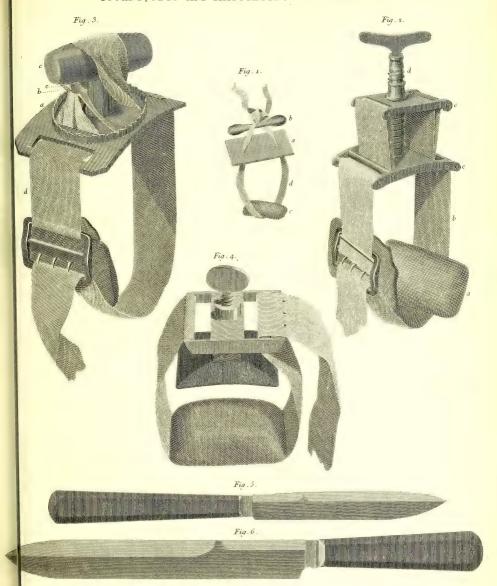


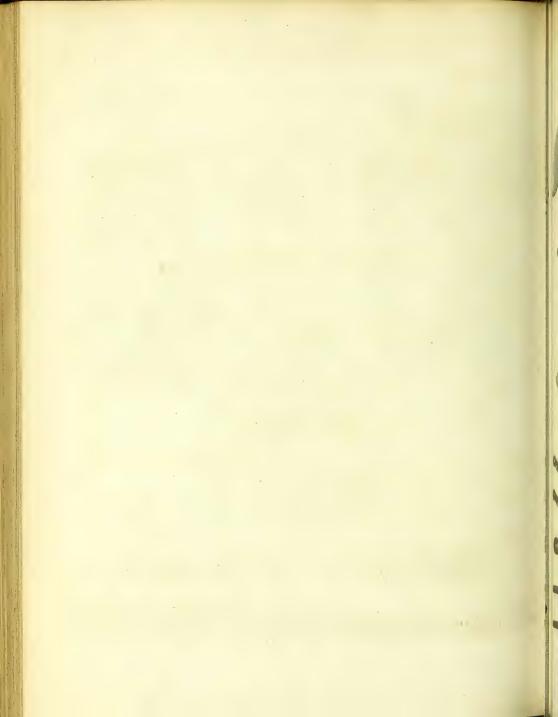






TOURNIQUETS AND AMPUTATING INSTRUMENTS.





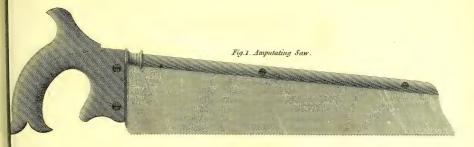


Fig. 2. Large Amputating Knife .



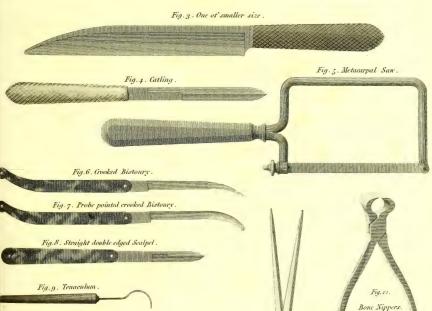
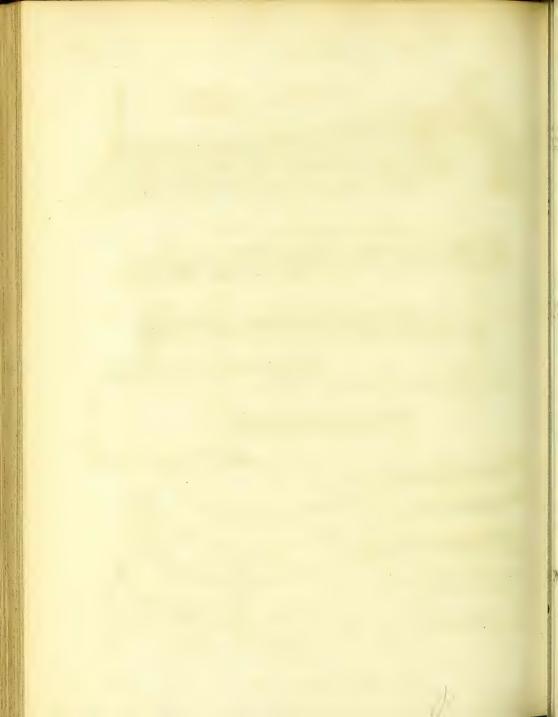


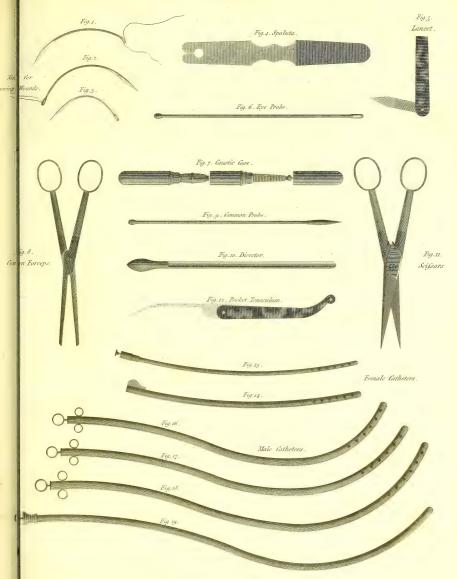
Fig. 10 . Aneurysm Needle .

Fig. n.

Forceps for taking up the mouths of resfels.

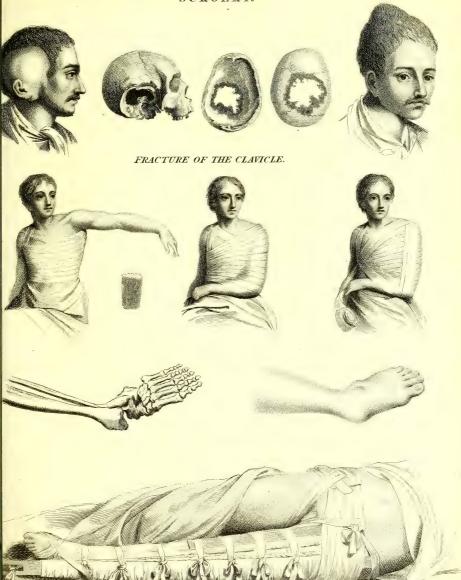
Employed also in several operations, in which careful disortion is requisite.





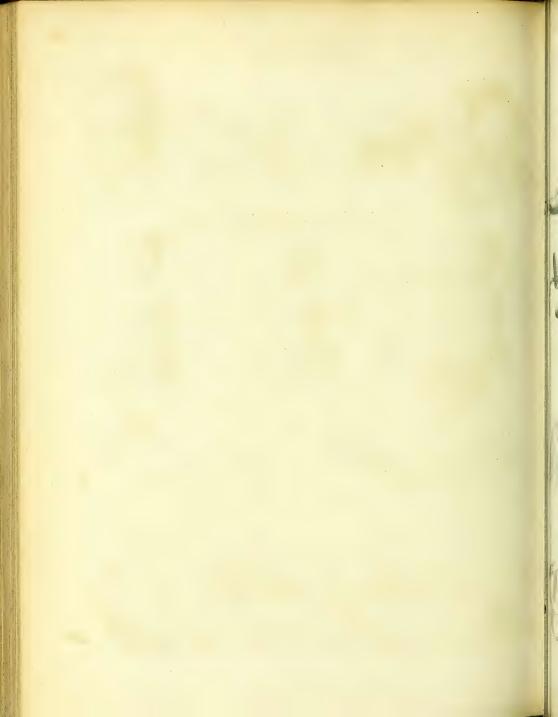


SURGERY.



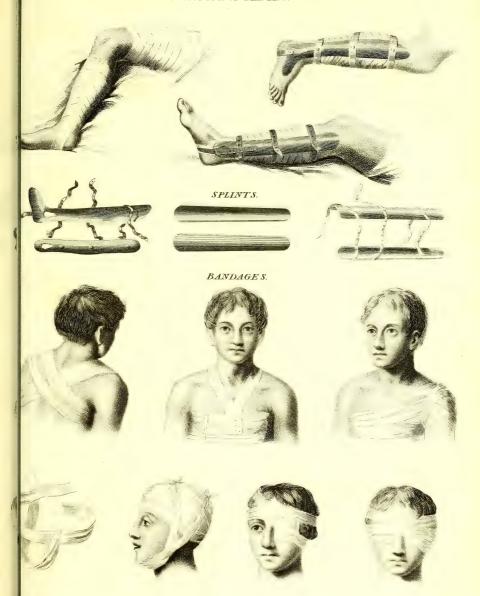
Published as the (let directs, by Longman, Hurst, Rees, Orme and Brown, Paternoster Row.

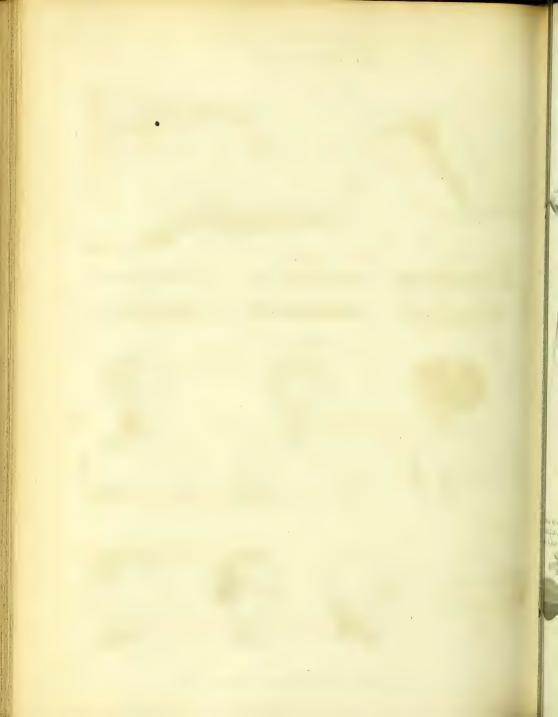
Lowry sculp.



SURGERY.

FRACTURE OF THE LEG.





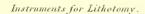


Fig. 1.

M. Earle's Stone Breaker.

<mark>Milandia da mana da Partina da Mana da</mark>



M. Chas. Bell's Staff with the groove on the side.



Scoop

Mr. 1. Burn's knife and Staff.



M. Hunter's knife .

Fig. 6.

M. A. Cooper's knife.

rew, by which the distance. which the blade shall move out y be best regulated.

Fig. o.

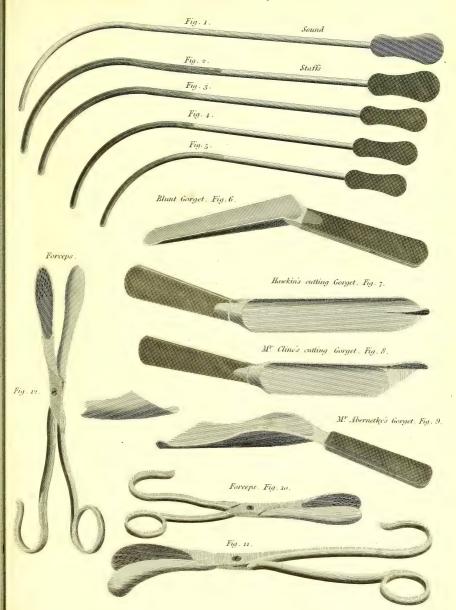
Fig. 7. M' Tho! Blizard's knife

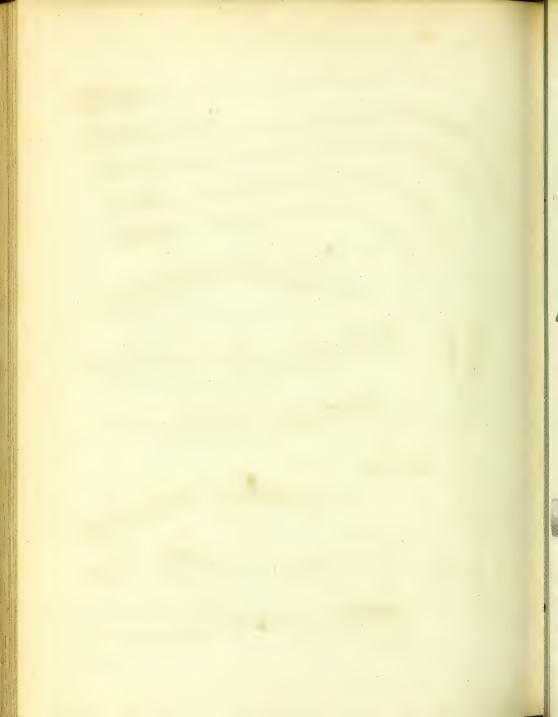
Fig. S.Frere Cosmés Bistoire Caché .

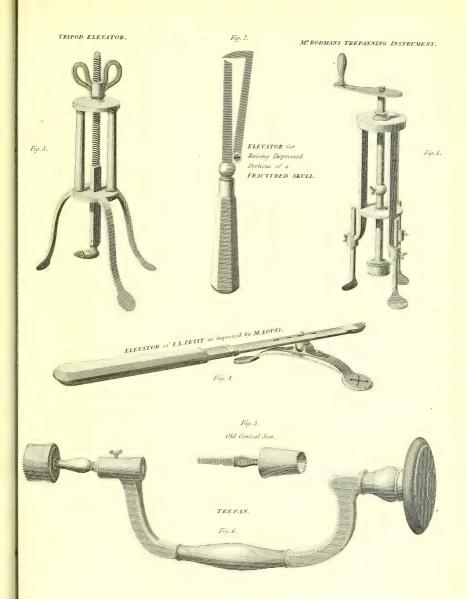


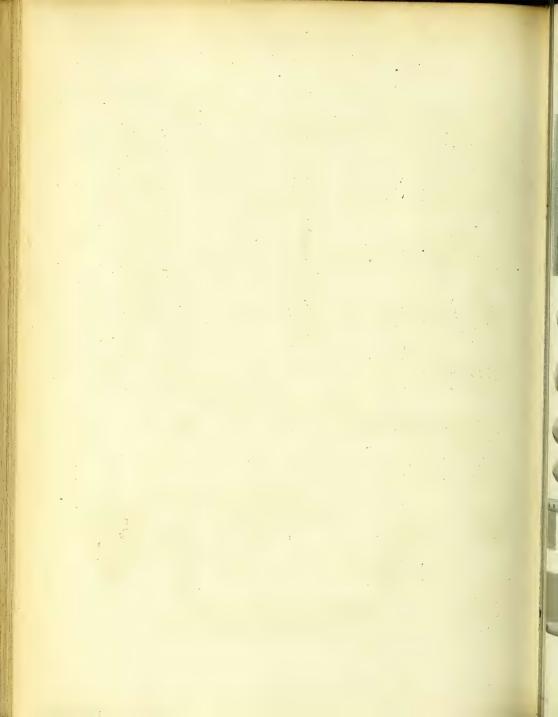
SURGERY.

Instruments for Lithotomy.



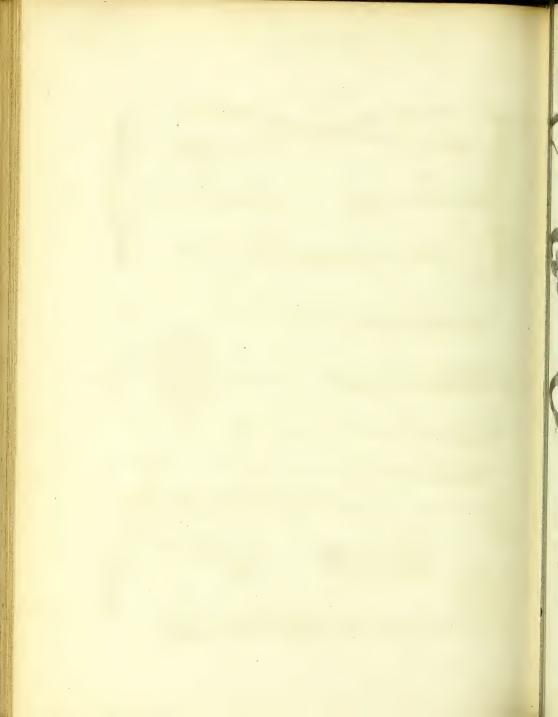


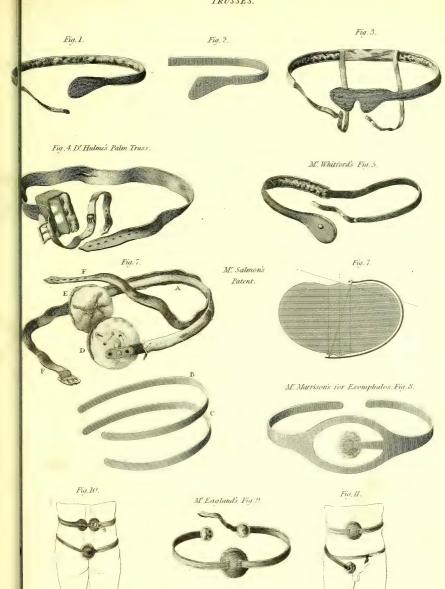


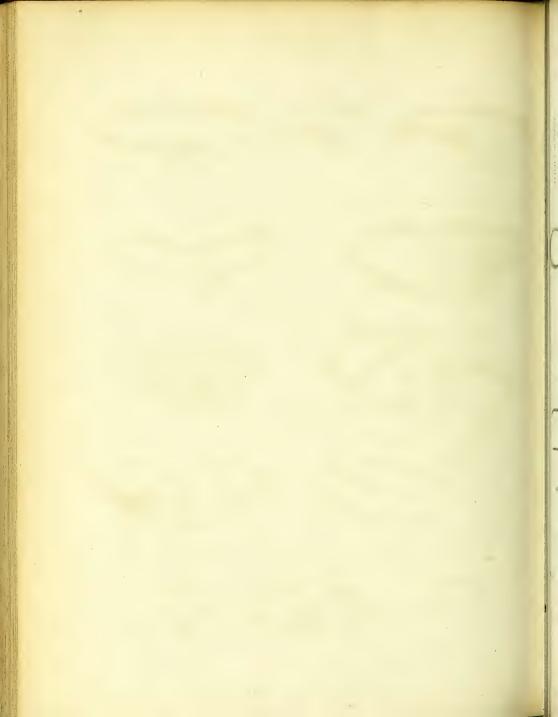


TREPANNING INSTRUMENTS.

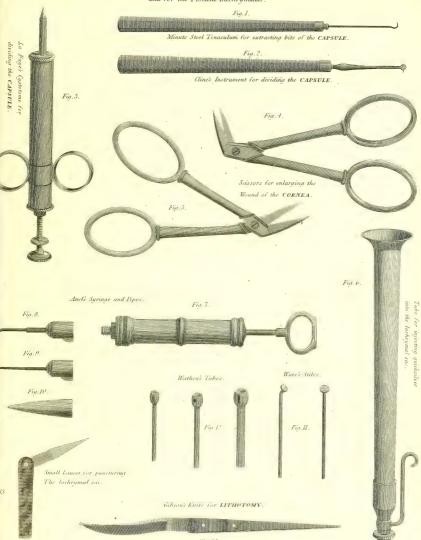
Fig. 1. Spring Forceps for Extracting the tircle of Bone, and Frauments. Trephines with Sliding Centre - Pins as made by Savigny. Fig. 4 . Scalpel . Fig.5. Common Elevator. Fig. 13. Fig. 6. M. Hev's, Saws with Curved Edges. Centre pin and Seren. Fig. 7. Lenticular. Fig. 8. Raspatory. Fig. 9. M. Hey's, small straight Saw. Fig. 10. Trephine with hali of its Sawing Edge filed away. Brush for cleaning the Teeth of the Trephine . Fig. 12. M. Hey's, large straight Saw.

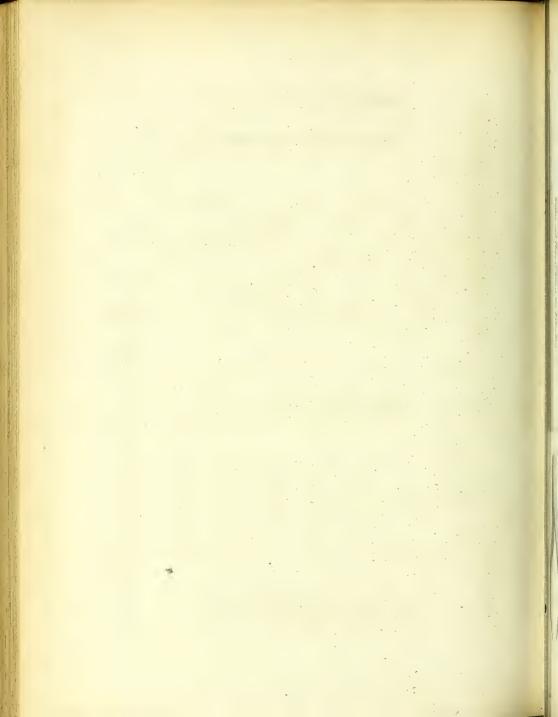




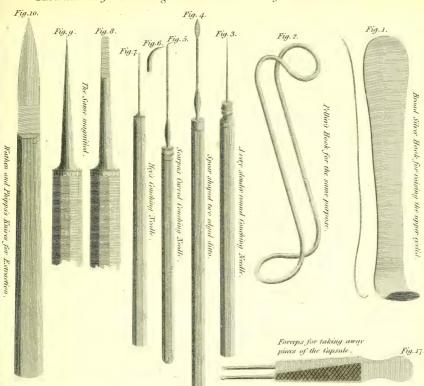


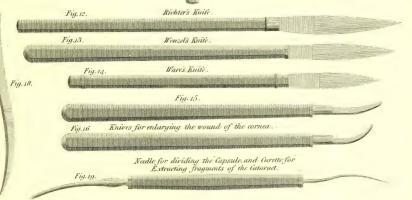
Instruments for the Extraction of the CATARACT, and for the Fistula Lachrymalis.

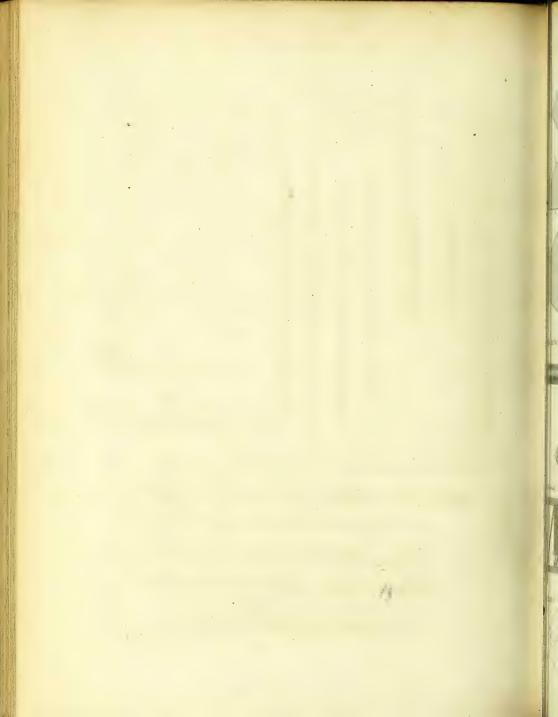


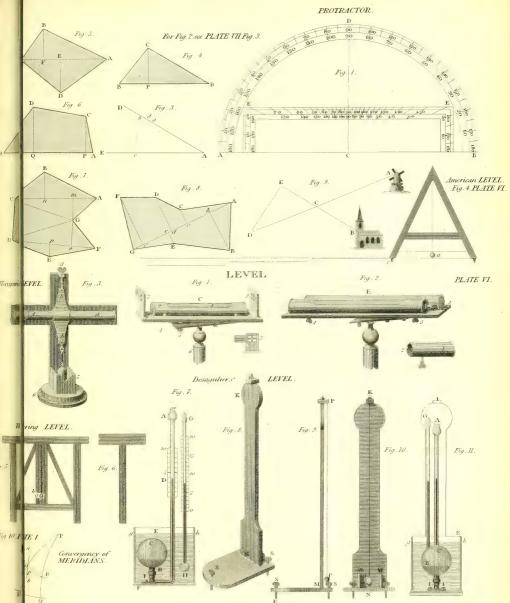


Instruments for Couching and the Extraction of the Cataract.

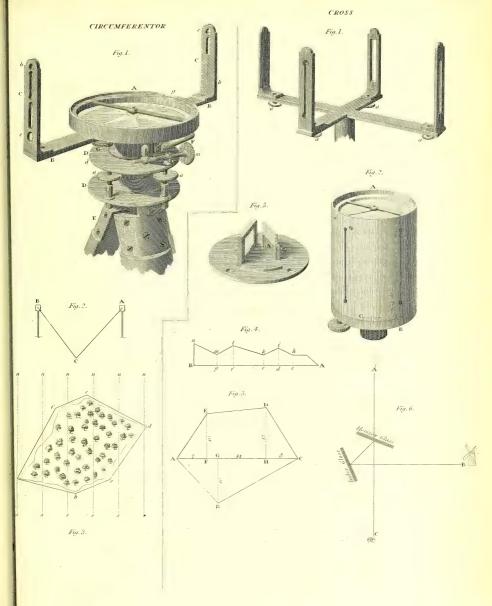


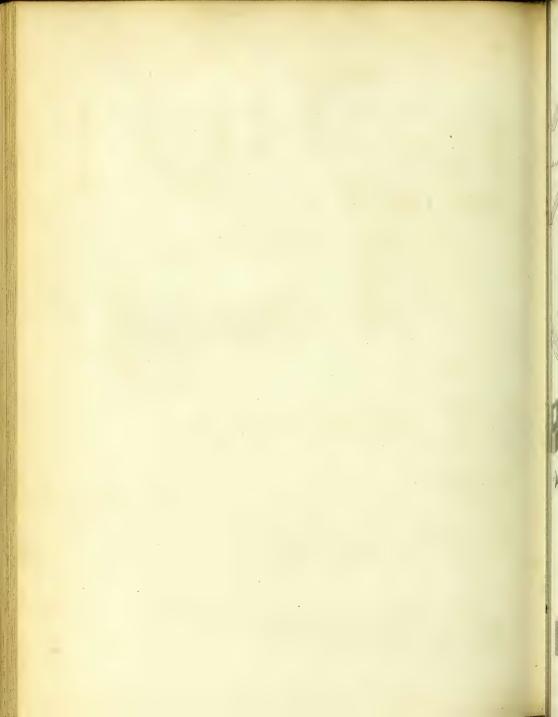


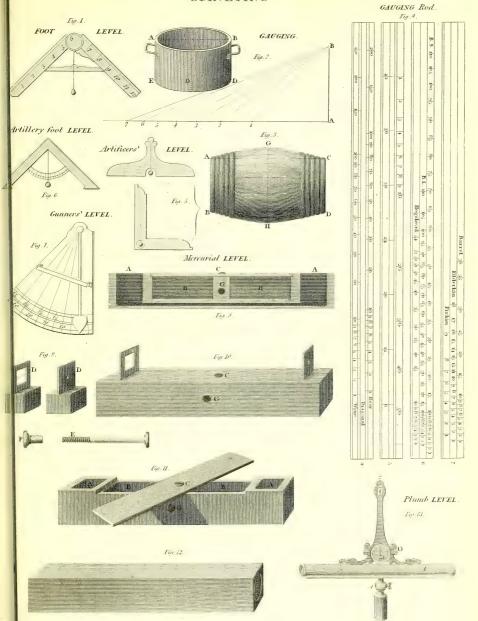


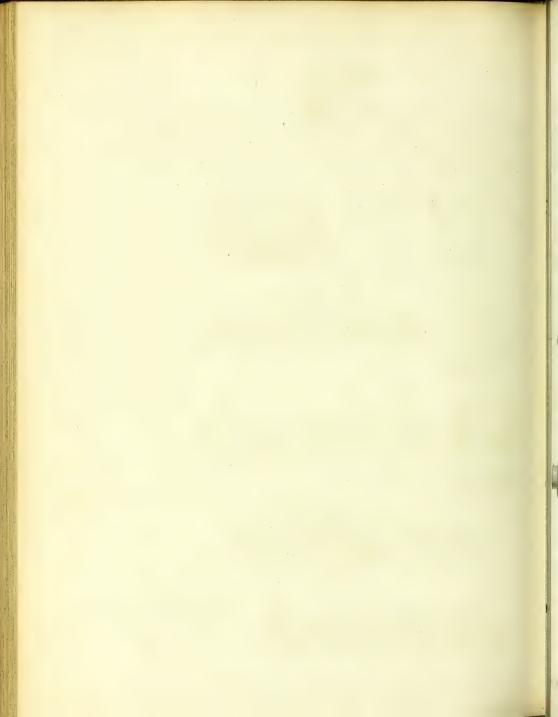






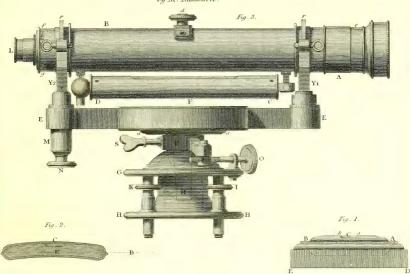




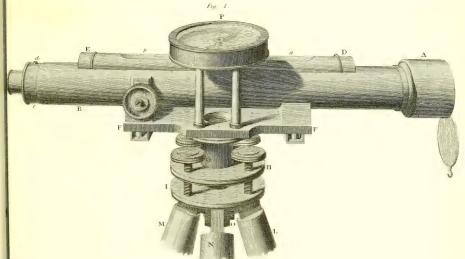


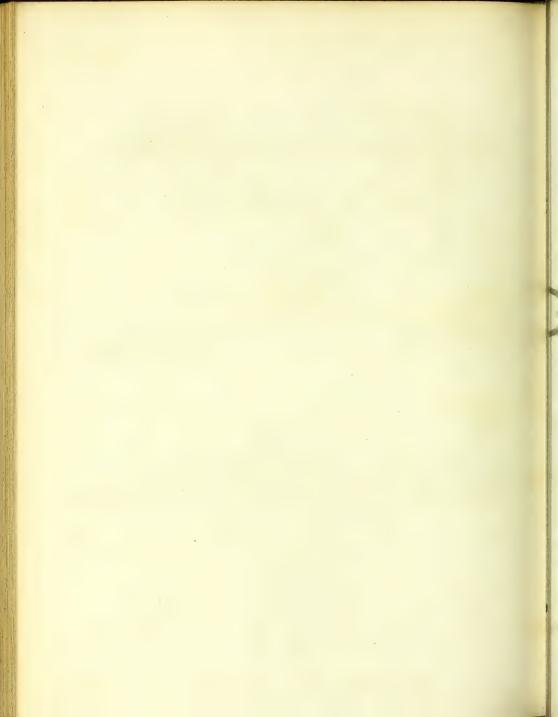
LEVELS.

by M. Ramsden .



M. Troughton's.





SURVEYING.

PLATE VI.

DENDROMETERS.

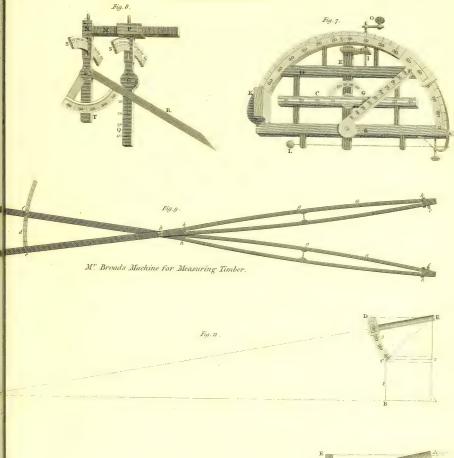
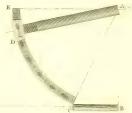
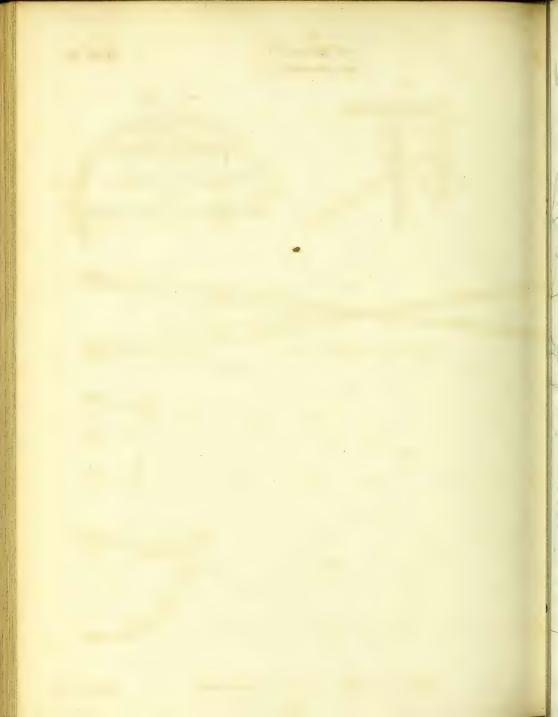
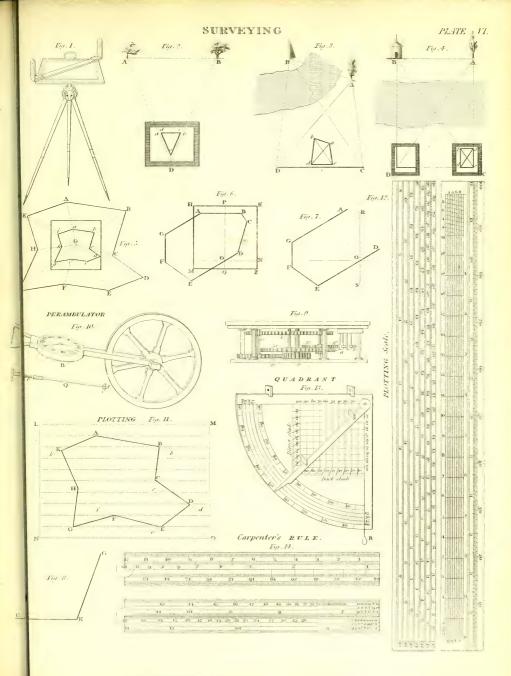
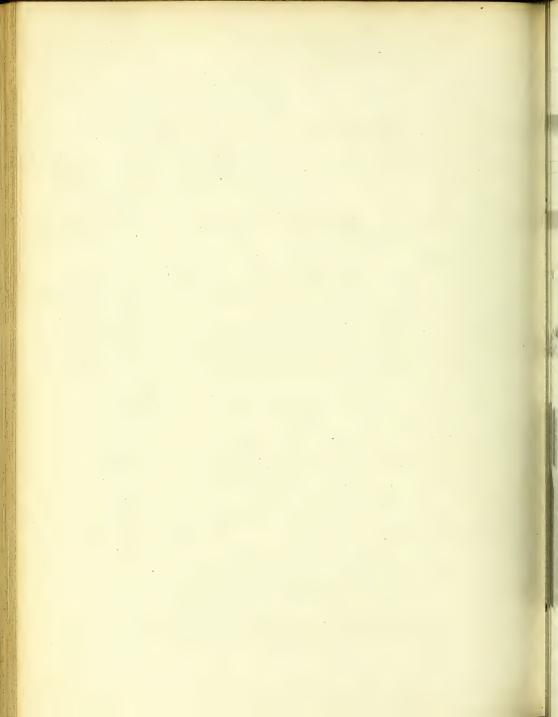


Fig. 10.

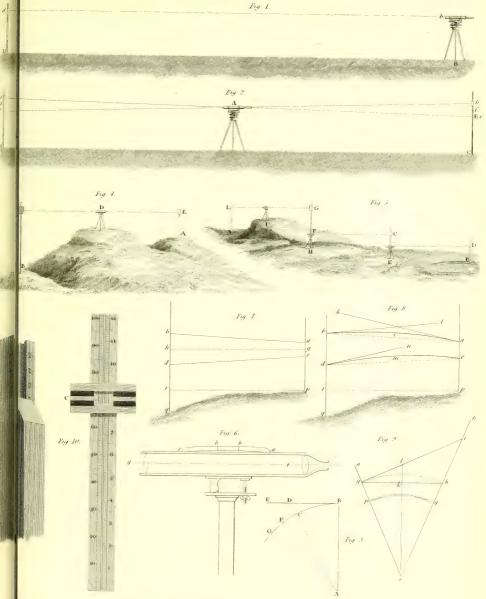








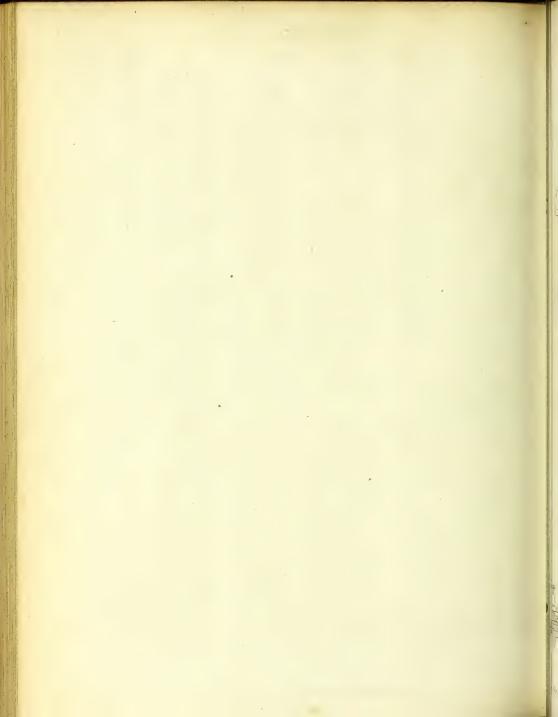
LEVELLING.



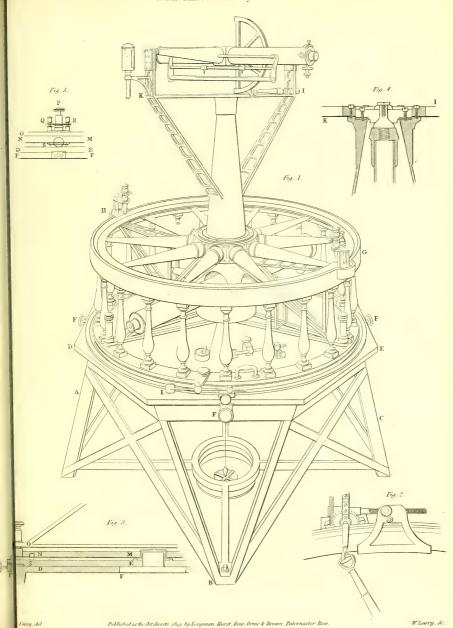


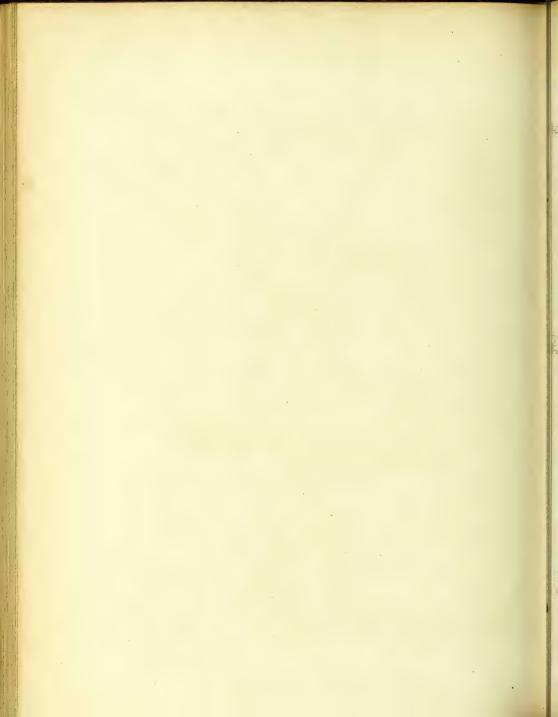
Lowry Sc.

Published as the Act directs , 1816, by Longman, Hurst, Rees, Orme, & Brown, Paternoster Bow



Grand THEODOLITE by Ramsden.

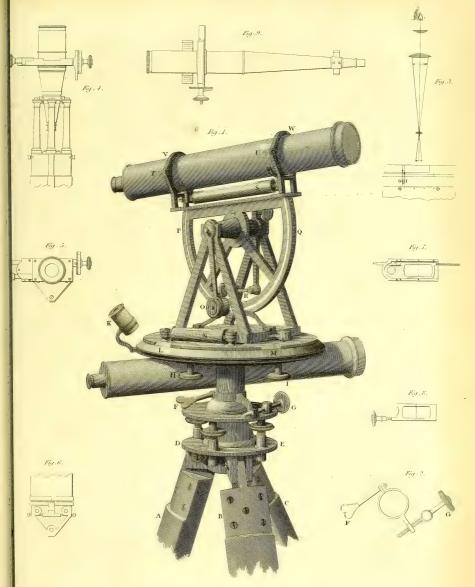


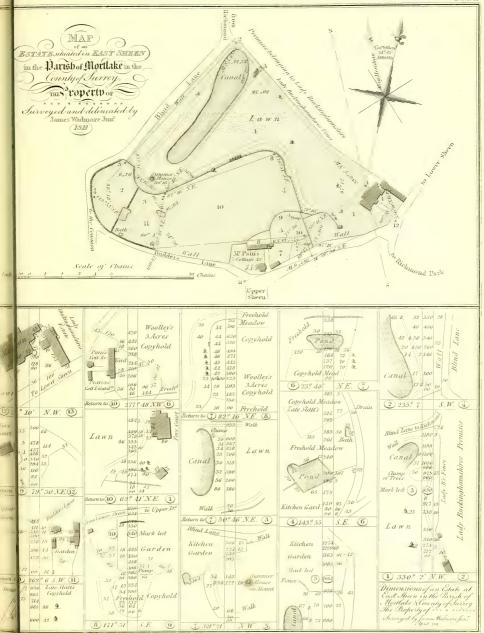


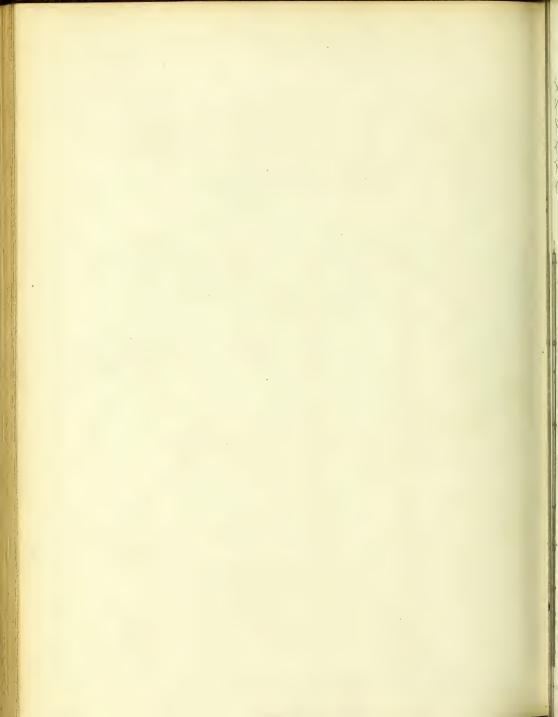
SURVEYING.

Portable THEODOLITE by Troughton.

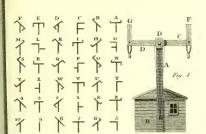
PLATE IX.

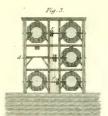




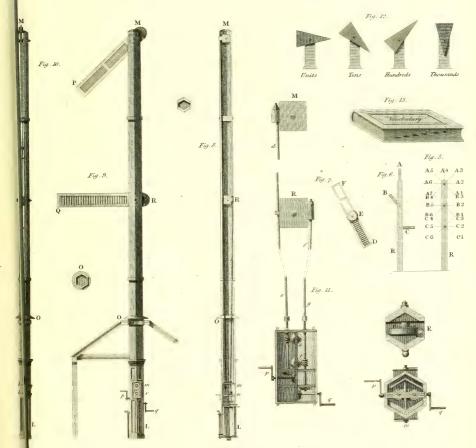


TELEGRAPH

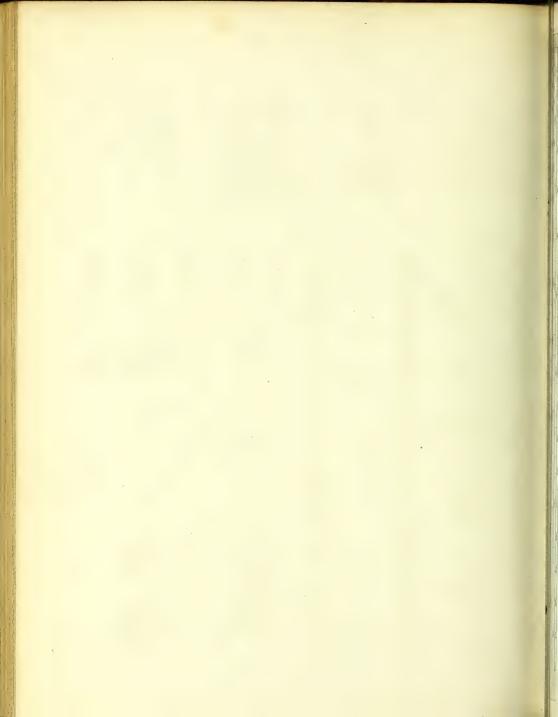


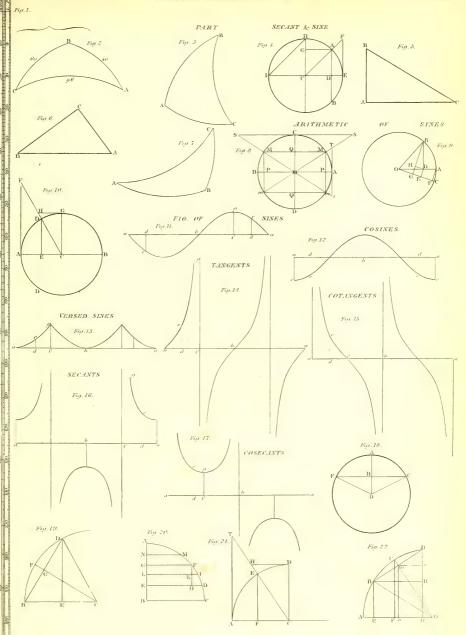


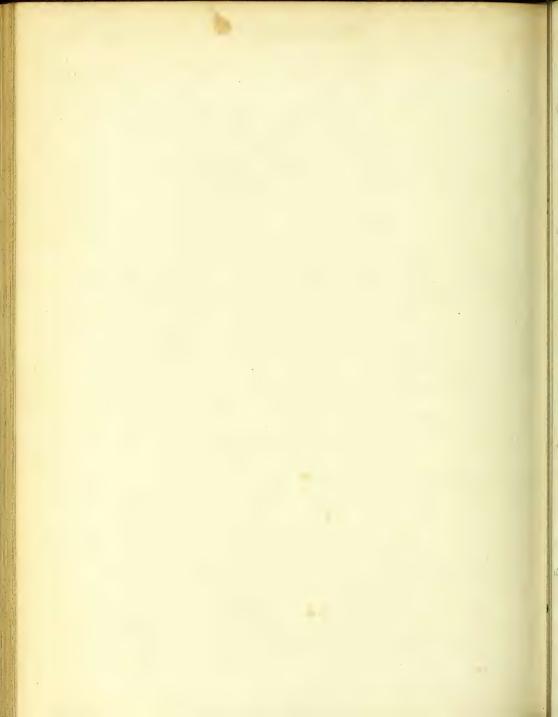




roy, dot

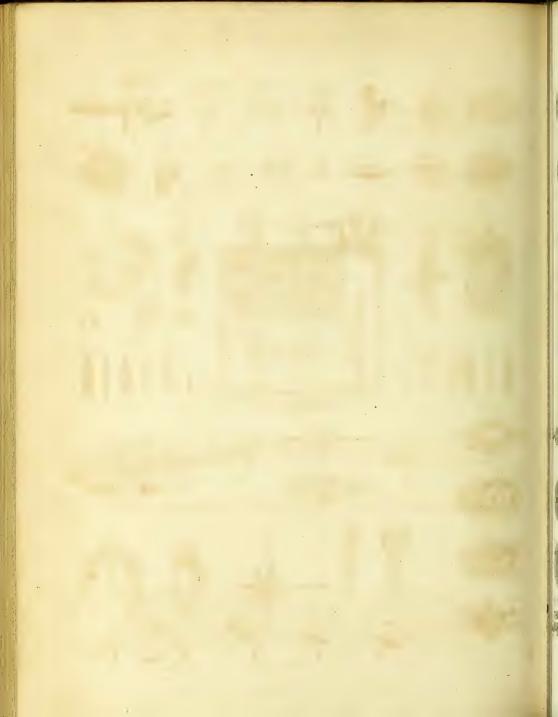


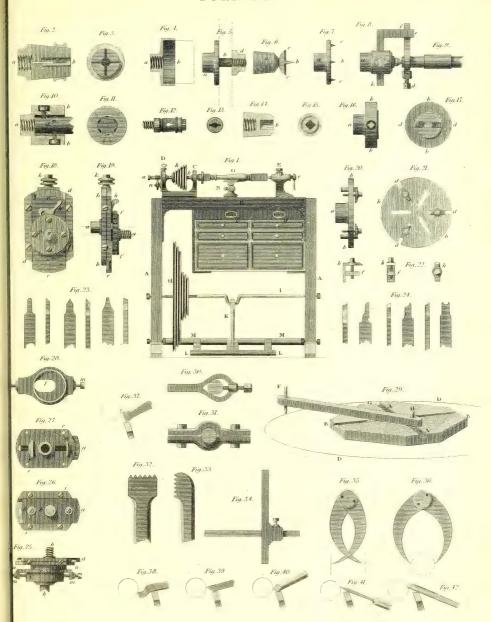


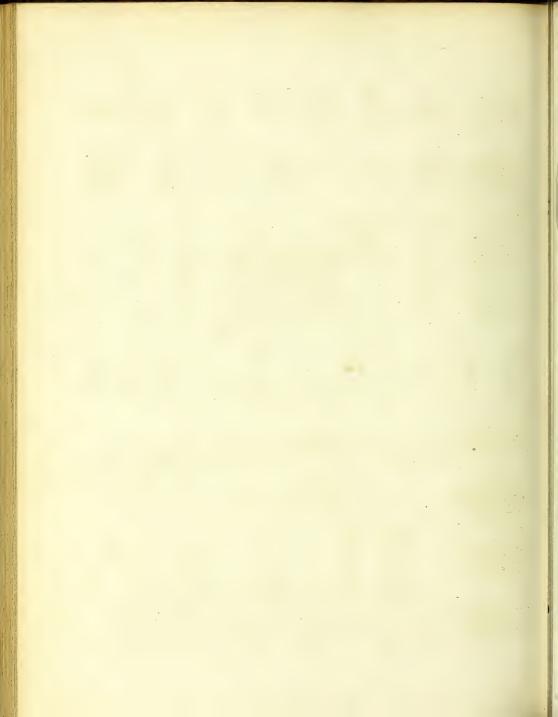


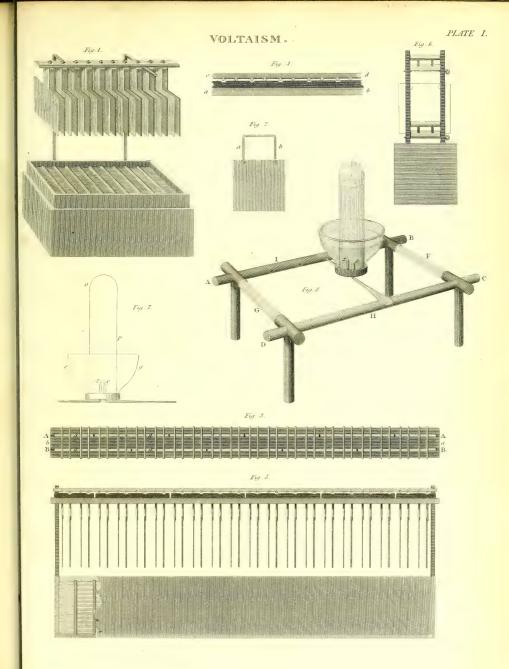
SPHERICAL Angle Fig. 1 SPHERICAL Triangle Fig. 3. Fig. 8. C Fig. 7. SPHERICS Fig. 11. Fig. 10. TRIGONOMETRY TANGENT Fig. 13. H Fig. 14. Fig. 19.

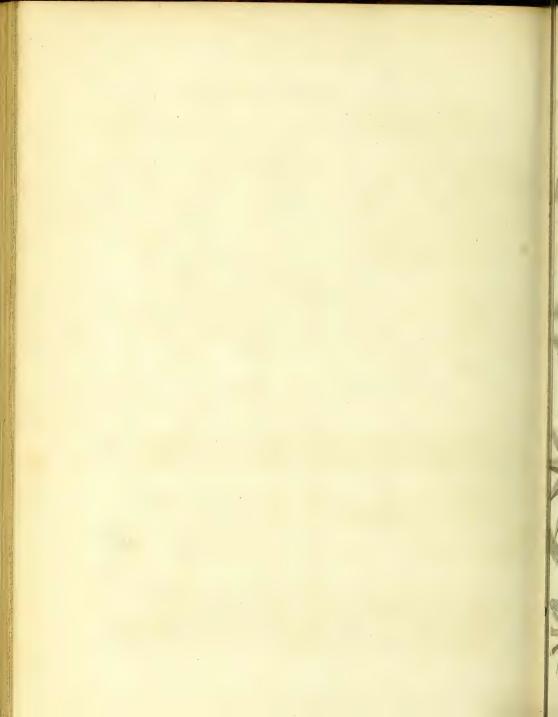
G .D

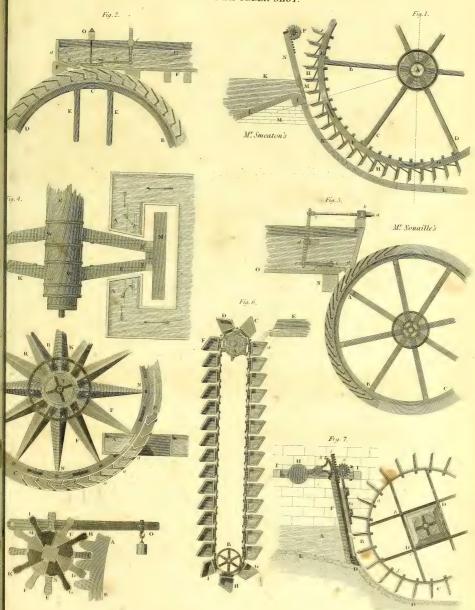


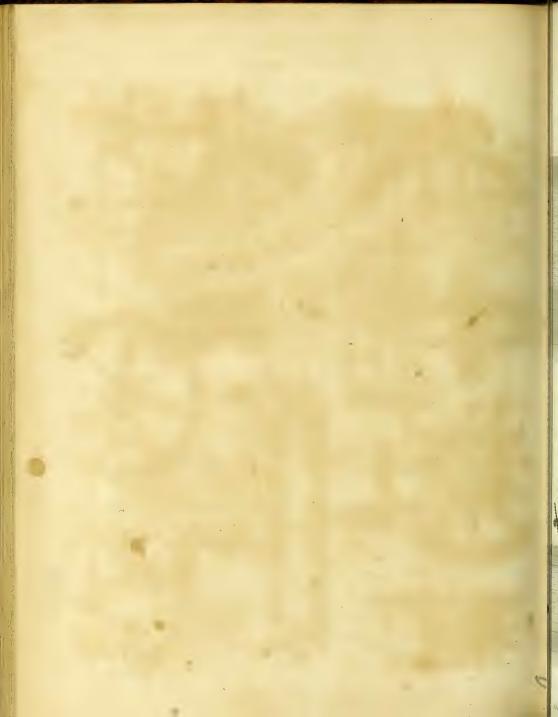


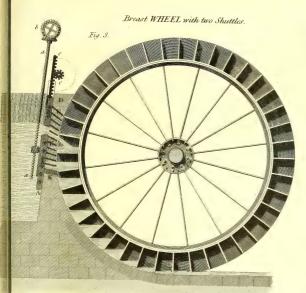


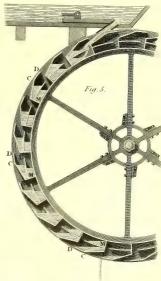




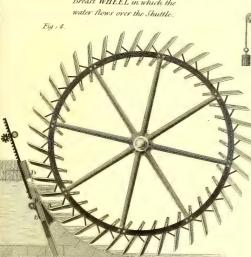




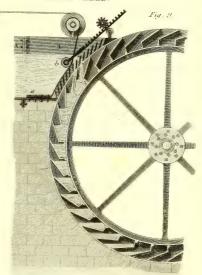


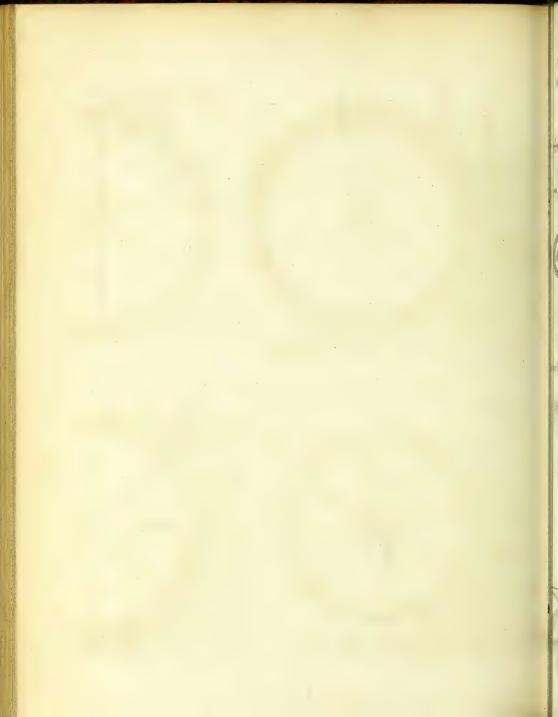


Breast WHEEL in which the water flows over the Shuttle.



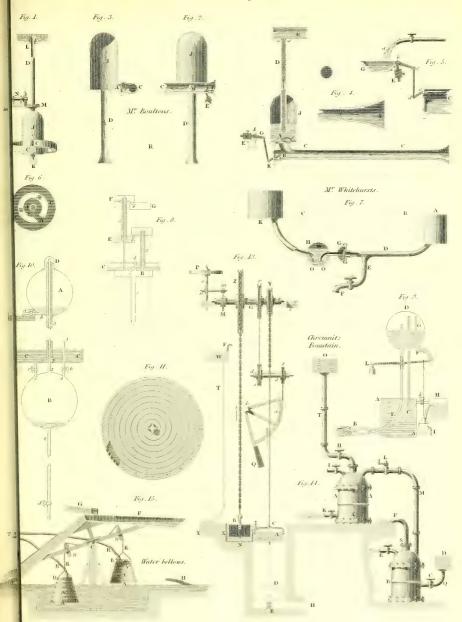
Overshot WHEEL.

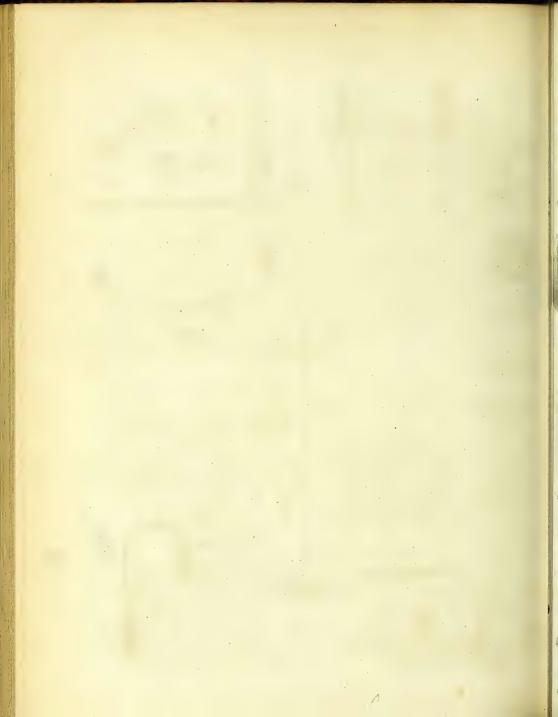




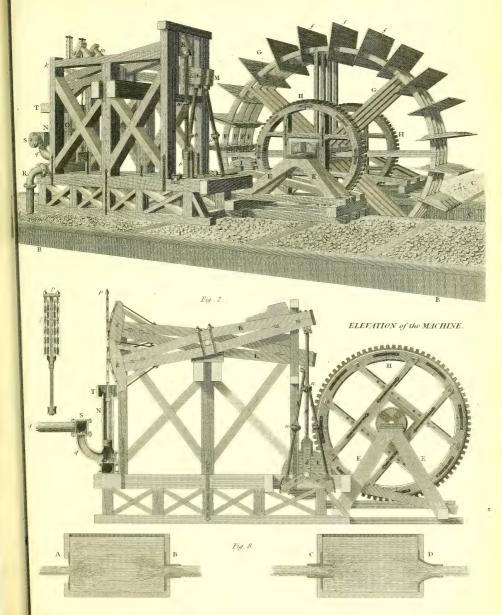
WATER WORKS.

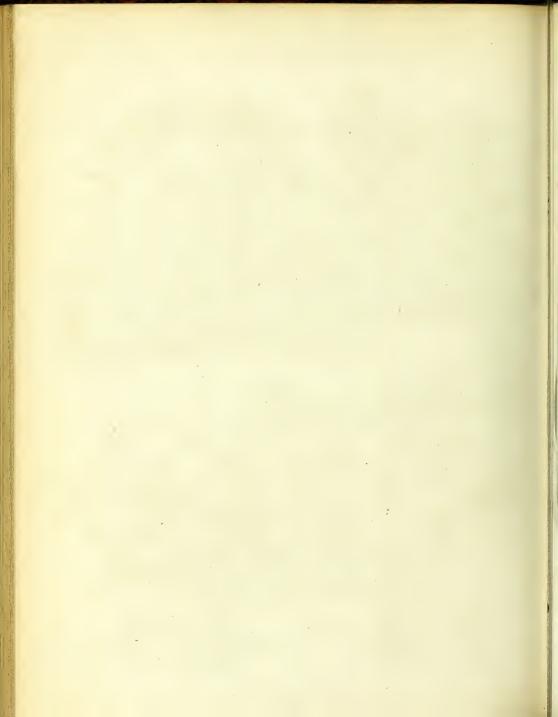
Machines for raising Water.



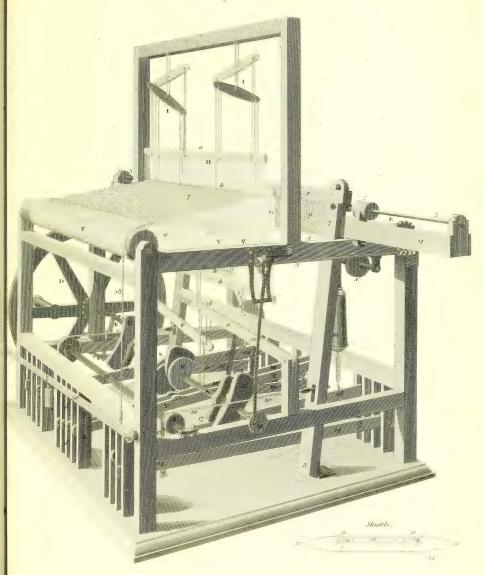


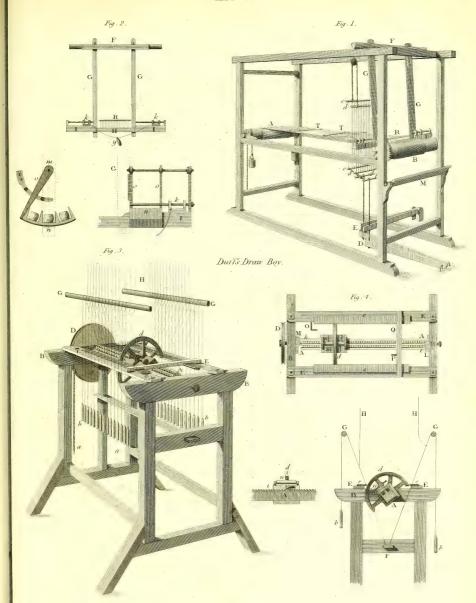
MACHINE for raising WATER at London Bridge.

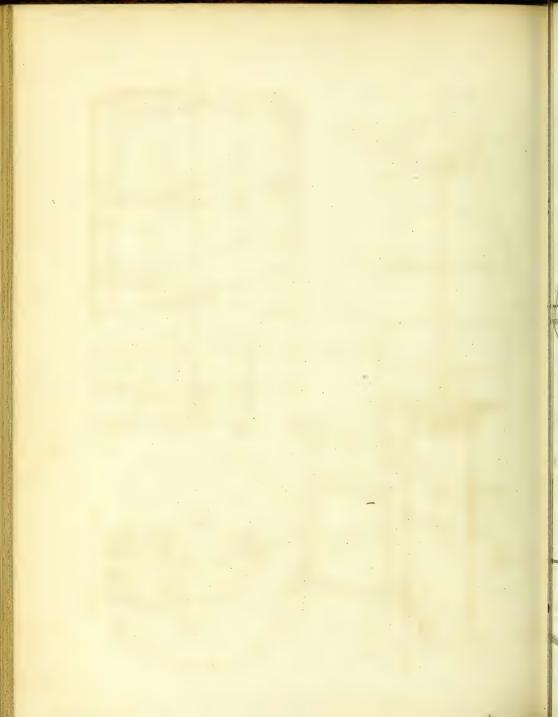




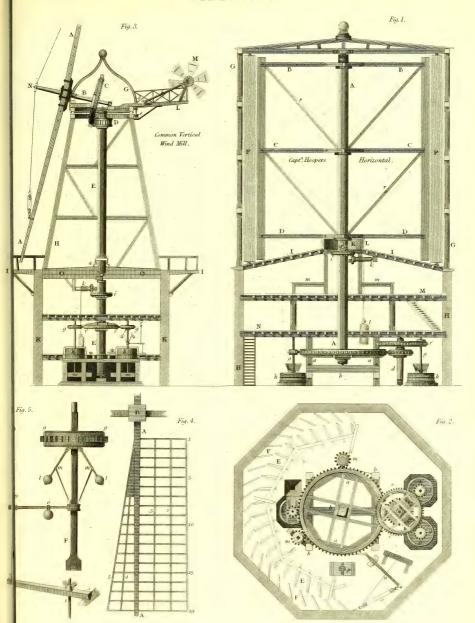
M. Austin's Engine Loom.

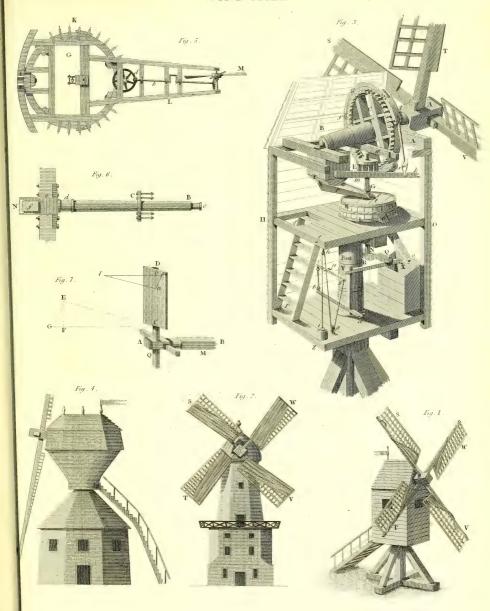


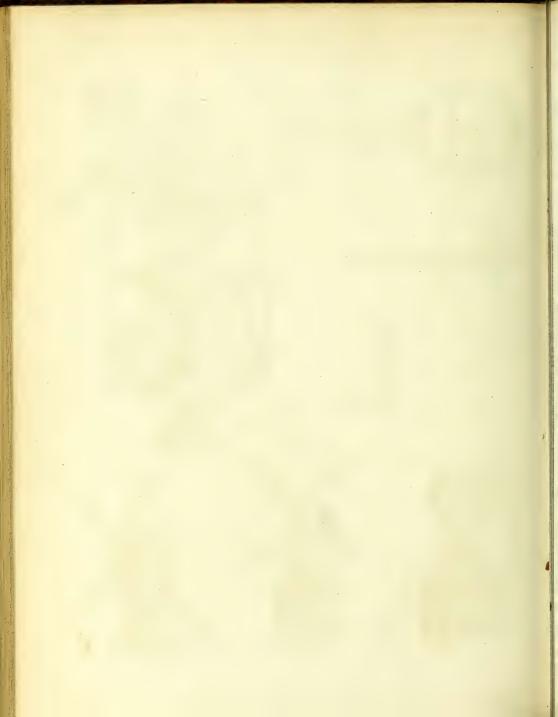


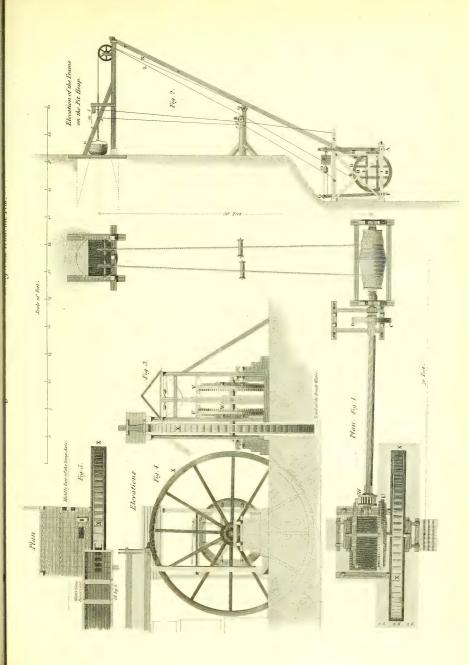


WIND MILL.

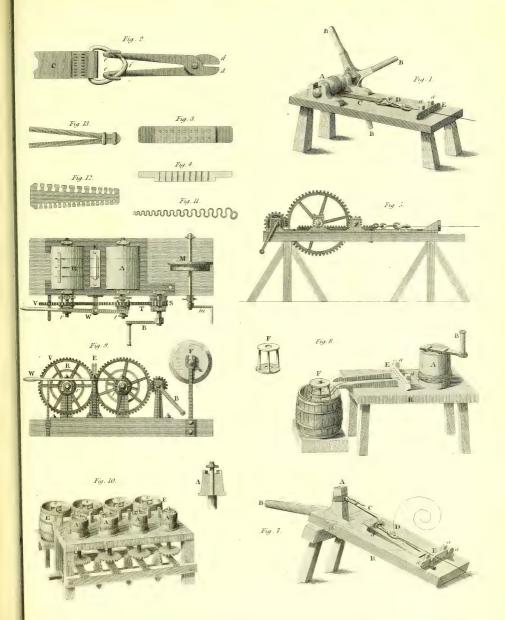


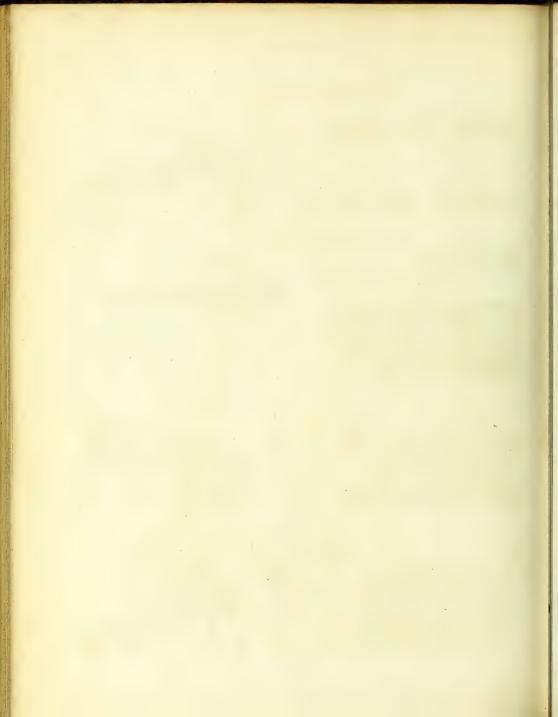


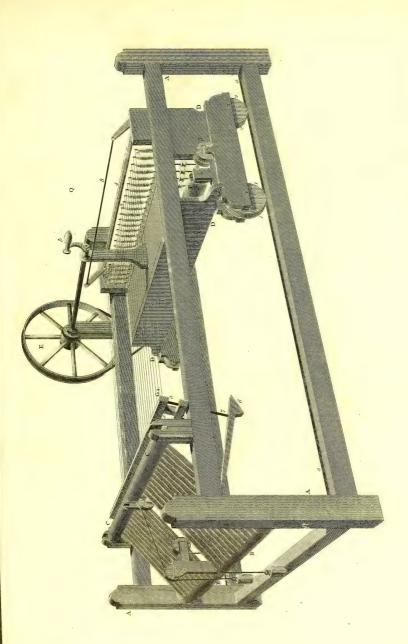








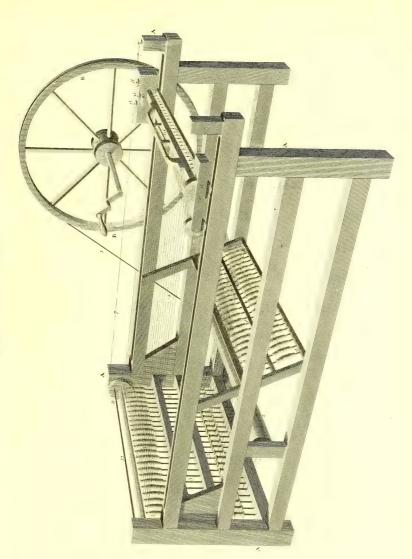




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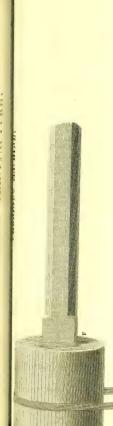
Engraved by Wilson Loury.

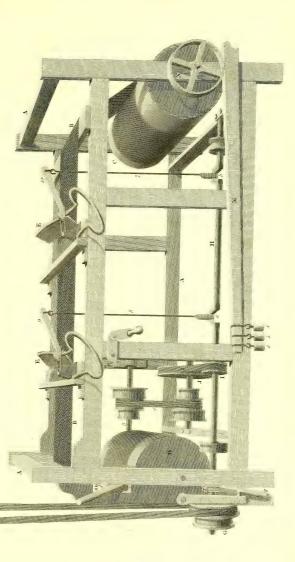




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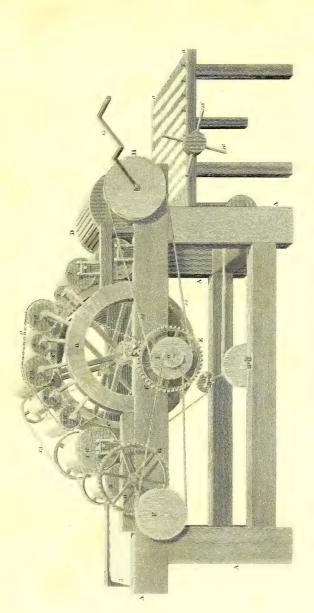




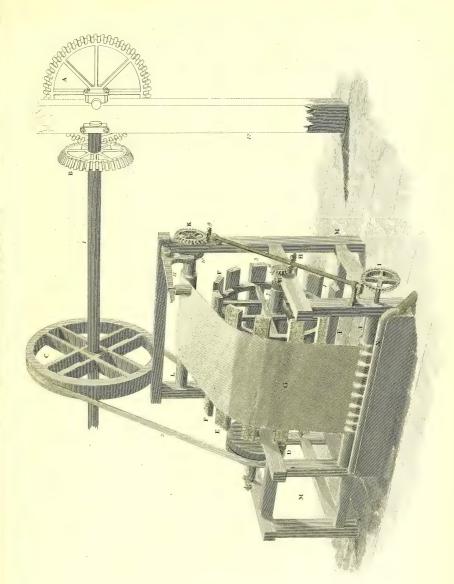


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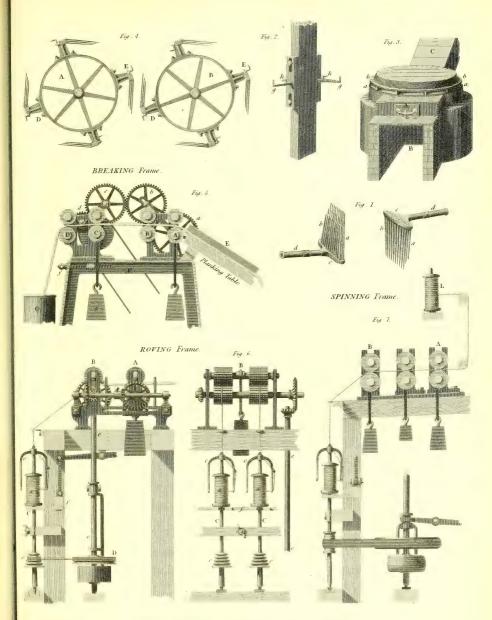




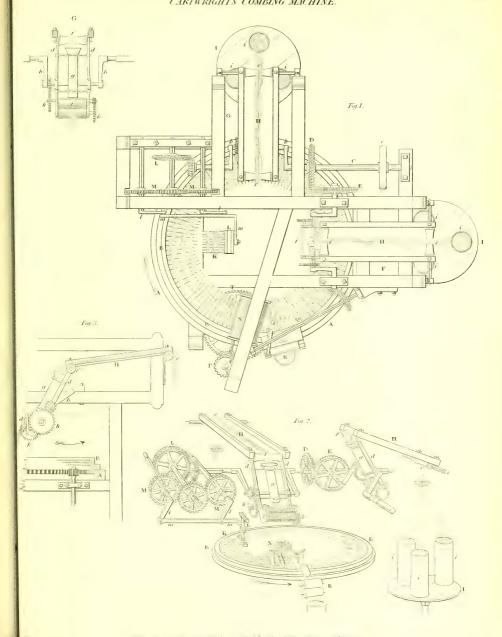


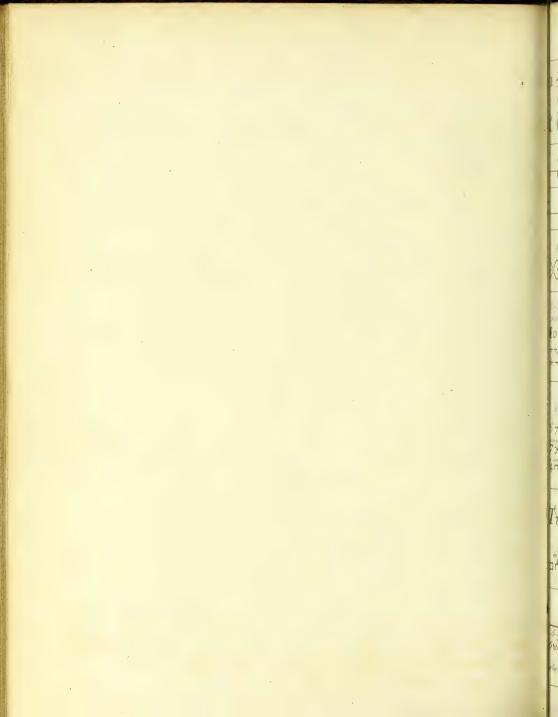




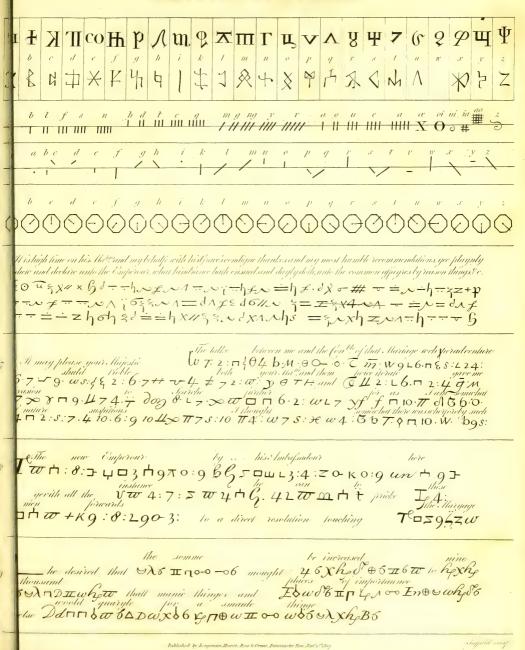






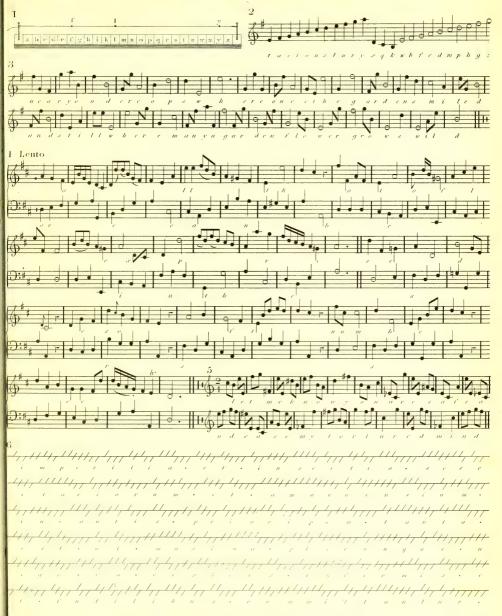


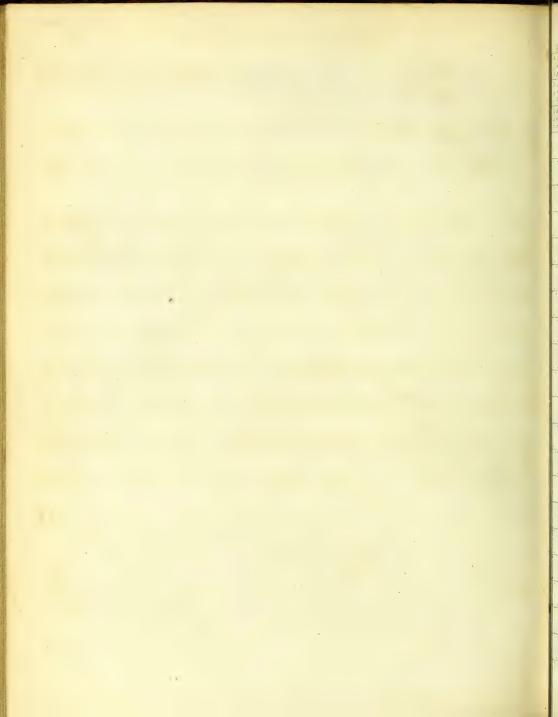
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12.2.2. 2.27	
Alphabet and Key.	<u></u>
bcs mtlico gmt puh oia	
jpudan hoe	
kdy ternsi	
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